The American Artisan

THE HARDWARE RECORD

Vol. 46.—No. 5. CHICAGO, AUGUST 1, 1903. $2.00 Per Year.

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COLUMBUS BOLT WORKS
COLUMBUS, OHIO.
Write for Our General Catalog "C."

PURE ASPHALT ROOFING
Never Dries Out or Cracks — Our Tarred Ready Roofing, Slaters' Felt, Building Paper, Roofing Cements, Paints, Etc. WRITE US FOR PRICES.
J. L. PERKINS & CO., 235 Lake St., CHICAGO.

Never Will Leak . . .

American Seal Elastic Oil cement will not get hard—always stays elastic.

Stops leaks in any roof—old or new, and will wear for years. Fix up the roof now and stop the leakage—in money and roof.

Use it on new work for jointing and 'round your skylights—follow it with a coat of American Seal Roof Paint—the best made—and the top of your house is safe for years. *Prices for the asking.*

THE WM. CONNORS PAINT MFG. CO.,
TROY, NEW YORK.
WESTERN AGENTS Dept. A. { J. L. Perkins & Co., 235 Lake St., Chicago. Stockhoff Supply Co., 107 North Main St., St. Louis.

THIS SPACE FOR SALE
Inquire of Owner
Daniel Stern, 69 Dearborn St.
CHICAGO.

TINNERS FIND EMPLOYMENT
By advertising and using THE POWERS AUTOMATIC CHIMNEY TOPS

They make chimneys draw, give tinners employment making stocks, and give the dealers profit

Sold by Hardware Jobbers and Dealers

Made only by
POWERS BROS.
STREATOR, ILL.

This cut free to dealers.

OSGOOD STANDARD SCALES
No BETTER Scale is made. The quality is absolutely guaranteed.
"Osgood on the beam"
is your protection. Write for catalogue N and BEST prices. Our prices are RIGHT. We feel that we can save you money.
Osgood Scale Company
Binghamton, N. Y.

The Atlas Bolt & Screw Co.
CLEVELAND, O.
Stove Bolts, Rivets, Rods
And Kindred Articles
Catalogue and Prices on application

Crying—to—do—business—without—advertising—is—like—winking—at—a—girl—in—the—dark; you—know—what—you—are—doing—but—nobody—else—does.

Black Diamond Files and Rasps
PERFECT—ALWAYS
Twelve Medals Awarded

At International Expositions
C. & H. BARNETT CO.
Black Diamond File Works, PHILADELPHIA, PA.

Nicholson File Co.
GENERAL OFFICES: PROVIDENCE, R. I., U.S.A.
Manufacturers of

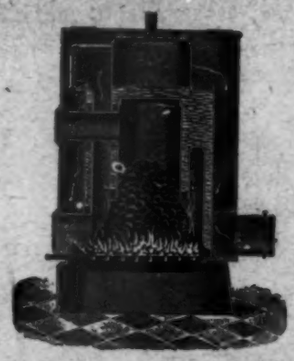
FILES and RASPS
NICHOLSON, KEARNEY & FOOT, ARCADE, AMERICAN, GREAT WESTERN, McCLELLAN, EAGLE, J. B. SMITH, "X. F." GOLD MEDAL

GENEVA TOOL CO. Hand Agricultural Tools, GENEVA, OHIO.

One new plant; increased facilities all around, twelve warehouses, mean the promptest shipments possible of IDEAL Boilers and AMERICAN Radiators this season.

AMERICAN RADIATOR COMPANY

LAKE AND DEARBORN STREETS, CHICAGO



"DEFENDER" STEEL BOILER

For Steam and Hot Water Heating Surface Burner. For Soft and Hard Coal. Portable and Brickset.

Kewanee Boiler Company, Kewanee, Ill.

167 E. LAKE ST., CHICAGO.

St. Louis Office, 518 Bank of Commerce Bldg.

SPERRY'S CALDRONS....

Full measure, guaranteed perfect, original patterns, with metal distributed where it is needed. Many Caldrons are made from our castings as patterns. They are inferior to original, as they have light bottoms and heavy sides and hold less.

D. R. SPERRY & CO.,

HOLLOW-WARE FOUNDERS,

TWELVE SIZES ALWAYS IN STOCK. BATAVIA, ILL.

"THE ILLINOIS"

Sold in Every State

Have Stood the Test of Years.

METALLIC SKYLIGHTS

Made in 10 Styles and 500 sizes.

"THE ILLINOIS" are the best skylights made. We also manufacture Cornices, Finials, etc. Send for handsome illustrated catalogue. Ribbed skylight glass furnished at very lowest prices.

J. H. JONES & SON, Mfrs.,

Lock Box 33. STREATOR, ILL.

MAYER & COMPANY

B. G. I.

The Tomlinson Cleaner

Is the most satisfactory means of thoroughly cleaning a shot gun ever invented. It will absolutely remove rust spots and keep a gun in perfect condition. Will fit any standard rod and any gun. The Tomlinson is cheap at $1.00 for it will last a lifetime with proper care. New wire sides furnished.

BRIDGEPORT GUN IMPLEMENT CO.,

Agency 313 Broadway, New York City, N. Y. BRIDGEPORT, CONN.

CORTRIGHT METAL ROOFING

FREE EDUCATION IN ROOFING

For anyone interested.

Write for illustrated booklet.

CORTRIGHT METAL ROOFING CO.

Philadelphia and Chicago.

PETERS AMMUNITION

Peters Factory Loaded Shells Is the most complete line of Shotgun Ammunition on the market.

Loaded with all the standard bulk and dense smokeless powders, semi-smokeless and black powder, fulfilling every requirement of the sportsman at the trap or in the field.

Peters Cartridges Hold the World's Records in Rifle, Revolver and Pistol Shooting.

Eastern Department: 98 CHAMBERS ST., NEW YORK. T. H. Keller, Manager.

HIBBARD, SPENCER, BARTLETT & CO., Chicago, Ill.
CHARLES G. GRUBB, Pittsburg, Pa.
P. B. CHAMBERLAIN & CO., St. Louis, Mo.

THE PETERS CARTRIDGE CO.

CINCINNATI, OHIO.

WHITE'S OAK

BETTER THAN EVER FOR 1903

THE BASE IS CAST IN ONE PIECE

It is the Best Oak Stove on the Market

IT WILL PAY YOU TO SECURE THE AGENCY FOR OUR LINE

BETTER THAN EVER FOR 1903

THE BASE IS CAST IN ONE PIECE

It is the Best Oak Stove on the Market

IT WILL PAY YOU TO SECURE THE AGENCY FOR OUR LINE

WRITE FOR CATALOGUE

THOMAS WHITE STOVE CO.

QUINCY, ILL.

HERE THEY ARE

MONOGRAM FOR 1903

BETTER THAN EVER

IT WILL PAY YOU TO SECURE THE AGENCY FOR OUR LINE

The Ophir is the very best Range now offered to the trade. Why? Because it has Style! It also has features no other range has. Now is the time to select a line of ranges for fall trade.

OPHIR MONOGRAM STEEL RANGES

Three Sizes, namely: 816, 818 and 918. 820 and 920.

OUR JR. MONOGRAM.

If you want to get the Oak trade, buy this one.

High in Quality
Low in Price

CATALOGUE NOW READY.

Write and Secure the Agency.

OUR NEW

ILINOY

Is Also Ready for Shipment

THE WONDER OF 20TH CENTURY

Made in 4 Sizes—12-14-16-18

THE QUINCY STOVE MFG. CO.

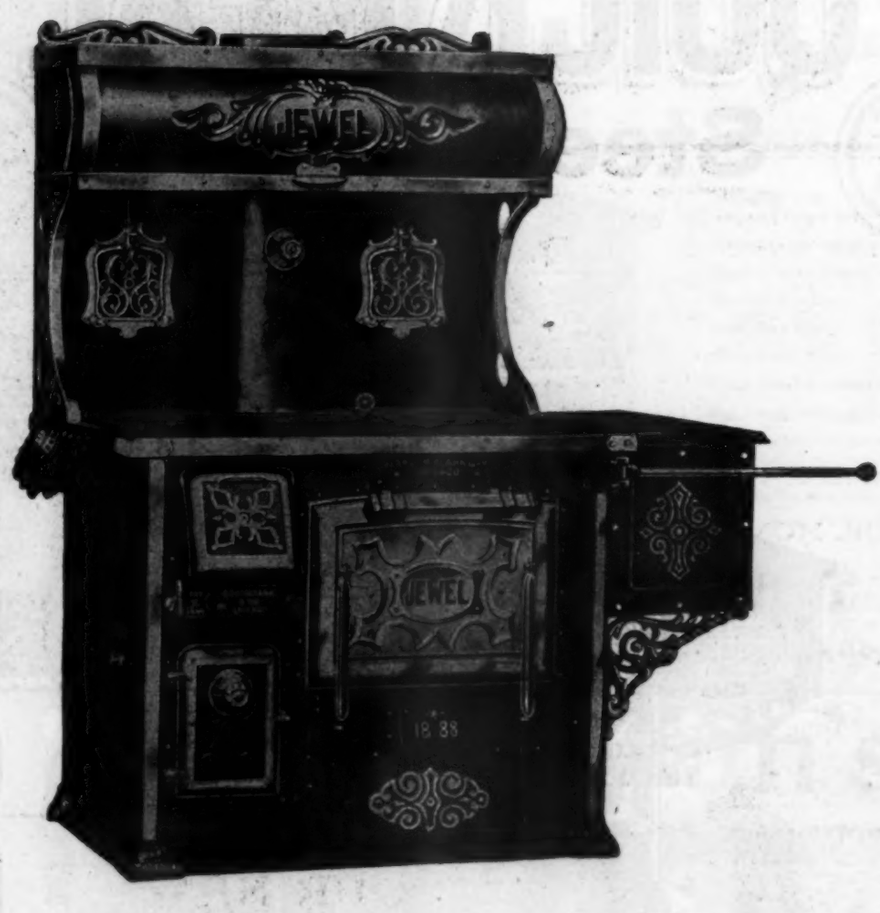
QUINCY, ILL.

Saw it in The American Artisan

CHICAGO JEWEL

CHICAGO STEEL RANGES JEWEL

CHICAGO JEWEL



CHICAGO JEWEL

Justice done to every detail.
Every range body made alike.
Warranted in every respect.
Each range and fixture is inspected.
Low prices and high quality.

CHICAGO JEWEL

George M. Clark & Company

Division American Stove Company

72 Lake Street . . CHICAGO

QUICK MEAL

Steel Ranges

"Quick Meal" Steel Ranges Always Please

"Quick Meal" Steel Ranges Are Trade Winners

The Reservoir on the "Quick Meal" Steel Range is incased with a nicely Japanned casing, with an air space between it and the cas ng. Consequently can not sweat. It has no dampers. This construction makes it simple and always insures a neat and clean-looking Reservoir.

They are made for either Right or Left side of Range.

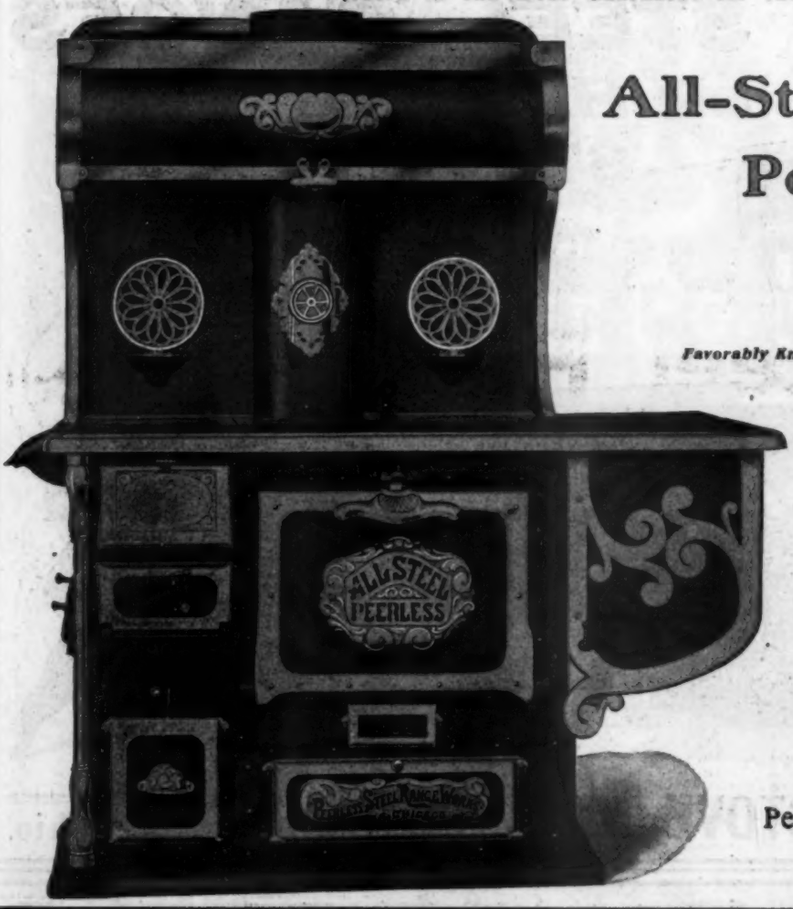
RINGEN STOVE CO. DIV. OF AMERICAN STOVE CO.

ST. LOUIS.

SAN FRANCISCO, CAL.
45 and 47 Bluxome St.

PORTLAND, ORE.
4th and Davis St.

"A Good Record is the Best Guarantee for the Future"



All-Steel Peerless Ranges

Favorably Known for Over Nine Years

Malleable Steel Top Plates, (ground smooth and bright)
Malleable Doors and other fittings,
Steel-Asbestos-Steel Flue Bottom,
Massive Fire Box,
Steel Oven Shelf,
Extra Large Ovens,
Extra Large Reservoirs,
Pan for elevating wood fire,
Pouch feed and blue steel (without extra charge)

Catalogue Shows These and Other Good Features.

Peerless Steel Range Works

CHICAGO.

Van's

Pat. Improved Wrought Steel Portable

Range

For HOTELS, RESTAURANTS, PUBLIC INSTITUTIONS, BOARDING HOUSES and PRIVATE FAMILIES.

All Kinds of Hotel Implements for Culinary Purposes.

Manufactured and For Sale by

The John Van Range Co.

419 Elm and 410, 412, 414 & 416 Home Sts.
CINCINNATI, OHIO

ROYAL STEEL RANGES and HEATING STOVES

A new and up-to-date line of Steel Ranges, Steel Cooks, Air-Tight Oaks and Hot Blast Heaters of modern construction.

Prices and cuts furnished on application.

THE ROYAL STOVE & RANGE CO., Greenville, Ohio.

CHAMPIONS

ALSO MARQUARTS

They possess every feature of genuine merit known to modern steel range construction and have one feature found in no other range on the market in the shape of an additional flue, which is below the main heating flue, and conducts the air through the ash pit to the combustion chamber.

CHAMPION STEEL RANGE CO.
CLEVELAND, OHIO.

"The fault, dear Brutus, is not in our stars,
But in ourselves that we be underlings."

Don't get blue, Mr. Dealer, because your neighbors are carried away with catalogue house prices on Steel Ranges. Put a few *Willard Steel Ranges* on your floor and sell them profitably at prices that will make catalogue house prices as altitudinous as the Himalaya Mountains by comparison.

You can do this because their quality is high, their price is low.

Wm. G. Willard, Mfr.
619-621 N. Fourth Street, ST. LOUIS, MO.

Royal Heaters.

MANUFACTURED BY THE

HART & CROUSE CO.

UTICA, N.Y.

ALL THE LEADING LINES OF

STEAM, HOT WATER & HOT AIR,

FOR HEATING ALL CLASSES OF BUILDING.

235 WATER ST. N.Y. COLUMBUS, O. BRANCHES. 29 LAKE ST. CHICAGO. ST. LOUIS.

CHAS. H. COSBY'S

20th Century Patented Air-Tight

Baker and Heater

Wanted—Western Agents or some one to manufacture on Royalty plan.

Write for information to

CHAS. H. COSBY,
423 W. Broad St.,
RICHMOND, VA.

M. TRAVILLA,

QUINCY, ILL.,

MANUFACTURER

"Air-Tight" Stoves

ASK FOR PRICES.

Wellsville Polished Steel

"THE VERY BEST."

The dealer who has on his floor a

Phœnix Furnace

makes no mistake. His trade is sure and continuous—undoubtedly the best HOT AIR FURNACE in the world and the greatest fuel saver on the market.

C. F. PALMER

PHŒNIX IRON WORKS UTICA, N. Y.

TUBULAR HEATING AND VENTILATING CO.

PHILADELPHIA, PA.

FORT WORTH, TEXAS, June 12, 1903.

The Tubular Heating & Ventilating Co.,
Philapelphia, Pa.

Dear Sirs:—In sending you the inclosed check, we take the opportunity to say that the two No. 6 Forbes heaters purchased from you last fall have given the fullest satisfaction. They are in use in the "Madrid," a small apartment house, containing twenty rooms. We have found that they not only furnished plenty of heat but did it with a very satisfactory coal bill. The fuel used was soft lump coal for the first fire in the morning but the rest of the day only slack, from soft coal, was used, costing $2.50 per ton. We think the heaters a great success and do not see how you can improve upon them.

Very truly, &c.,
The Fort Worth Real Estate & Investment Co.,
By Frank Gray, Pt.

FORBES FURNACE. Only 51 in. High.

Persistent Advertising

ONE who watches carefully the pages of general advertising mediums is struck by two things: the persistency with which those advertisers who are recognized as successful maintain their advertising week after week, month after month, and year after year; they never seem to abate their effort, apparently the volume of their business increases steadily. The other thing noticeable is the large number of advertisers who thrust their announcements above the surface for a little while and then sink into oblivion. They either had not merit as a basis for their claims or they did not possess the skill to steer their enterprise successfully, or else they lacked the nerve to put forth proper effort.—*Advertising Experience.*

The Right End Up Furnace

is so named because it IS Right End Up.

It was invented and patented by a man with **thirty-seven years' experience** in the furnace business.

It is NOT manufactured in a "job foundry" where more SCRAP than PIG iron is used, but in a FIRST-CLASS STOVE FOUNDRY, viz:

THE ROYAL STOVE & RANGE CO.

GREENVILLE, OHIO.

The Right End Up is ***better than all other house heating furnaces.***

BECAUSE (*a*) It is the ***only*** Furnace that the attendant can ***stand up*** and care for.

BECAUSE (*b*) It is the ***only*** Furnace in which ***any kind*** of fuel can be burned with entirely satisfactory results.

BECAUSE (*c*) It is the ***only*** Furnace permitting no waste of fuel (Hard Coal) through the ash pan, as it permits the sifting of the ashes in the first ash pit, and collection only of incombustible material in an ash hod in the second ash pit.

BECAUSE (*d*) It is the ***only*** Furnace where the fresh air from the outside touches the ***coldest*** part of the furnace ***first*** and the ***hottest*** part of the furnace ***last,*** our furnace being the ***hottest*** at the ***top*** and the ***coldest*** at the ***bottom,*** while in other furnaces with the fire-pot at the bottom the condition is reversed—a condition that should not exist. In other words, notwithstanding the great variety of furnaces made, ***ours*** is the ***only*** one that is ***"RIGHT END UP."***

BECAUSE (*e*) It is the ***only*** Furnace that is entirely self-supporting.

BECAUSE (*f*) It is the ***only*** Furnace in which the fire-pot can be replaced without the furnace being taken down. In a ***"RIGHT END UP"*** Furnace the fire-pot has no weight to carry; is hot on ***both*** sides, consequently ***more durable,*** and the old one can be taken out and a new one introduced in two minutes, as the attendant has simply to pull out the ***old*** fire-pot and insert the ***new*** one. This work can and has been done in ***one minute.***

BECAUSE (*g*) It is the ***only*** Furnace that has been experimented with for four years before being placed on the market.

Write and we will tell you more about it.

A GOOD AGENT IS WANTED IN EVERY TOWN IN THE UNITED STATES.

Address **ISAAC D. SMEAD & CO.**

No. 141 East Fourth Street, - CINCINNATI, OHIO.

"Education Consists in Getting on to Your Job."
Hawley Smith.

THE ANTHRA
Cinderella Double Heater

THE DUSTLESS OAK FOR ANTHRACITE

For years we have been students at "The School of Experience" for Stove Makers. We have been faithful and have absorbed considerable knowledge of the art.

Critics class us as A. Ms. & Ph. Gs. in the line, and we plead guilty to these titles.

The stove shown here is but one of the large number of our products that we submit in evidence when some thoughtless or uninformed "one" challenges us to "make good."

THE EXCELLENCE OF THIS PIECE OF GOODS MAY BE BRIEFLY ACCOUNTED FOR AS FOLLOWS:

Air Tight Mountings.
Grates operated with stove tightly closed.
Large radiating surface. Heavy castings.
Special and exclusive draft controlling device.
Elegant design and rich nickel.

THE KIND OF AN OAK YOU WANT AT A PRICE YOU WILL LIKE.

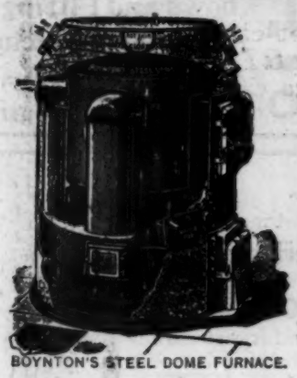
Pittsburgh Stove & Range Co.
PITTSBURGH, PA.

Western Agency W. D. SAGER, 38 to 40 Michigan Street, Chicago, Ill.

1903

The Old Reliable
Manufacturers of Up-To-Date Heaters

Steam, Hot Water & Hot Air



BOYNTON'S STEEL DOME FURNACE.

We have them all in great variety, and are expecting and prepared for the largest trade we have ever known

NEW CATALOGUES AND PRICE LISTS NOW READY

The Boynton Furnace Co.
New York Chicago

1903

"Vertical Lines"

That's the kind used in the

FRONT RANK

Hot Air Furnaces. Their use brings the air in direct contact with entire heating surface.

The Front Rank Fire Chamber is one solid sheet of closely riveted steel; being lined above the fire lines with genuine fire clay tiling, it is the most durable made.

The radiators are very large and have an unusual area of heating surface in comparison with size of the fire pot.

These furnaces burn hard or soft coal or coke. We also make wood burning furnaces.

Send for our catalogue, it will give you a better idea of what we make.

FRONT RANK STEEL FURNACE CO.,

2301 to 2309 Lucas Av., ST. LOUIS MO.

THE SALE OF THE

TORRID ZONE FURNACE

during the first three months of 1903 has exceeded that of any other year in the corresponding three months by about six to one. If you are not on our list, you had better look us up and you will see what this great advance in the demand means.

We are getting out a new Catalogue that has many things of interest in it for the dealer. They will be ready for mailing by the 20th of this month—free for the asking.

Lennox Manufacturing Co. Cor. Ninth Ave. and Frederick St., MARSHALLTOWN, IOWA.

FARWELL, OZMUN, KIRK & CO., St. Paul, Minn., Northwestern Distributors.

PERSISTENT ADVERTISING

One who watches carefully the pages of general advertising mediums is struck by two things: the persistency with which those advertisers who are recognized as successful maintain their advertising week after week, month after month, and year after year; they never seem to abate their effort, and apparently the volume of their business increases steadily. The other thing noticeable is the large number of advertisers who thrust their announcements above the surface for a little while and then sink into oblivion. They either had not merit as a basis for their claims or they did not possess the skill to steer their enterprise successfully, or else they lacked the nerve to put forth proper effort.—*Advertising Experience.*

BRAND STOVE CO.

We make largest line of cooking and heating apparatus, cast cooks, cast ranges, steel cooks, steel ranges, hotel outfits, heating stoves, furnaces, hot water and steam heaters. Send for catalogue.

MILWAUKEE, WIS.

CHICAGO FURNACE SUPPLY CO.

64-66 West Monroe Street - CHICAGO

Furnace Pipe, Elbows and Fittings Write for Special Prices and Illustrated Catalogue

JUDGMENT

In business matters ought to make it plain to you that it is just as important to you to use good Asbestos Furnace Cement in the manufacture of your furnaces as it is to use good iron.

Colebrook's Asbestos Furnace Cement

is the best that can be manufactured. We have furnished the largest manufacturers of furnaces and stoves in the country, and are still doing it. We are ready to furnish you. Why not? Send us your next order. Put up in all sizes removable cover cans, tubs, barrels, and half-barrels.

MANUFACTURED ONLY BY

W. H. COLEBROOK, SONS & CO.

SYRACUSE, N. Y., U. S. A.

LARGEST MAKERS OF ASBESTOS FURNACE CEMENT IN THE WORLD.

CHAS. SMITH CO., Western Selling Agents, 122 Lake Street, Chicago, Ill.

We Have What You Want

THE BEST FURNACES
AND BOILERS MADE
THE

MUELLER

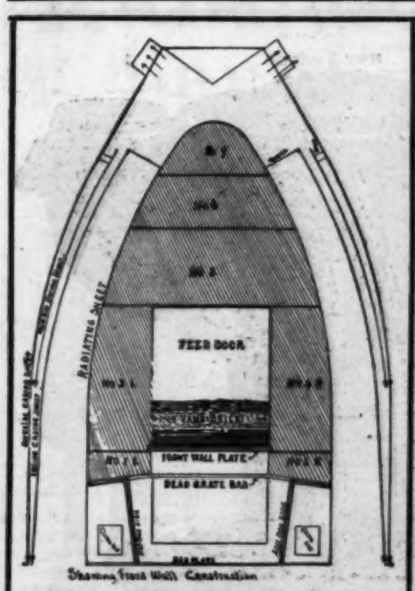
HAS NO EQUAL

Write for Catalog and Prices.

EVERYTHING IN THE HEATING LINE

ESTABLISHED 1857.

L. J. MUELLER FURNACE CO., 191 Reed St., Milwaukee, Wis.



Showing Front Wall Construction

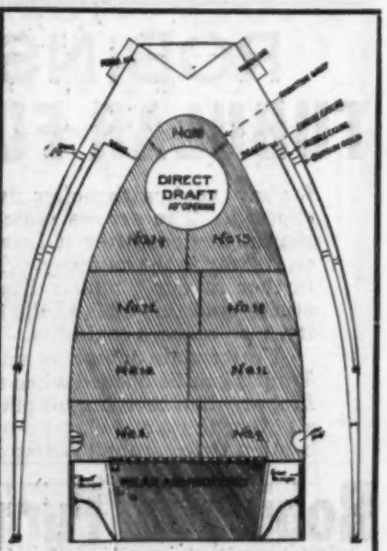
THE STANTON

is built on strictly scientific principles—each point covered by letters patent. Front and rear heads protected on inside by specially made fire clay blocks which help to equalize the heat. Flues are large making it possible to burn cheapest grades of coal.

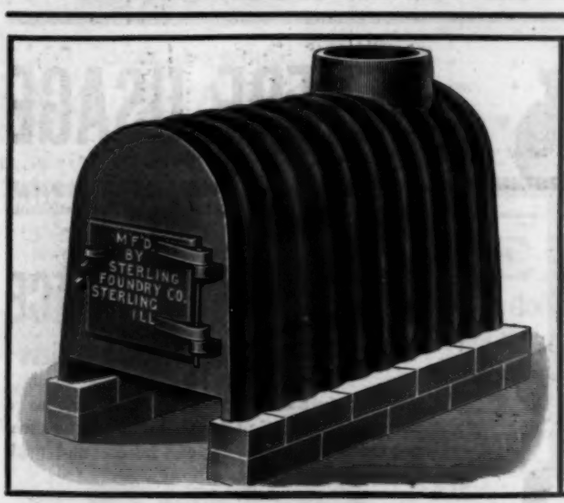
Better write for catalogue.
Also keep looking at this space.

THE STANTON HEATER CO.

MARTINS FERRY, OHIO.



SHOWING REAR HEAD CONSTRUCTION



Improved Japan and Enameling Oven Stove.

Length, 36 inches; Width, 18 inches; Height, 24 inches.
Weight, complete with grates, 600 pounds.

Made in one casting of the best quality of iron, has no sharp corners to crack in expansion or contraction. Has ¾-inch metal everywhere and with proper care will last for years. The corrugations give nearly double the radiating surface for the size.

It has been fully tested by leading concerns, doing the finest class of work, and found to outlast and be the most economical in fuel of any stove made for this purpose.

WRITE FOR CATALOGUE.

STERLING FOUNDRY CO.

STERLING, ILL.

W. A. GUENTHER & SONS, OWENSBORO, KY., WRITES:

"One copy of your valuable paper is frequently worth the subscription price for a year."

FLORAL CITY FURNACES

Are strictly up-to-date, old patterns have been relegated to the scrap heap, old methods discarded, but they are in no sense experiments. Every furnace is time tried and has been thoroughly tested in a climate where the temperature often falls to 40° and 50° below zero. Write for catalogue.

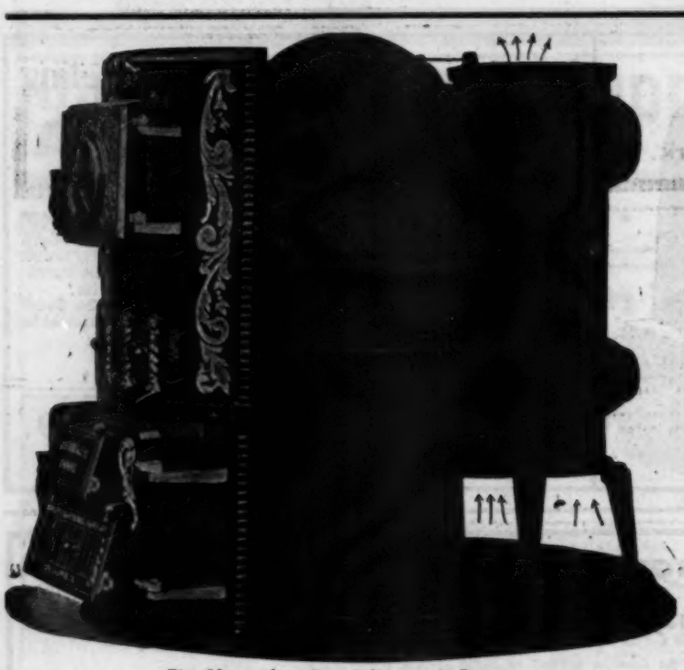
MONROE FOUNDRY & FURNACE CO.
MONROE, MICH.

ROBINSON TUBULAR FURNACE

for hard coal, with boiler flues in radiator exposed. The arrows indicate which way the smoke goes after it leaves the fire pot on its way to the chimney. The fire travels farther in our Tubular Furnace than in others, and this adds to the heating capacity, also reduces coal bills.

Notice main damper in smoke box. The damper can be opened when starting a new fire, or when reviving an old one, but is at all other times closed, thereby forcing combustion twice around radiator.

Robinson Furnace Co.
107-109 Lake St., CHICAGO, ILL.



The Crown "Low Down" Warm Air Furnace.

SEVERE USAGE

Is the lot of most furnaces, and only a furnace that is made extra heavy throughout will stand it.

THE CROWN FURNACE

"Low Down" Type—Made in 4 Sizes

is such a furnace. It also has an extra large amount of radiation for the size of the fire-pot used. This furnace can be cleaned with the greatest facility.

ASK FOR OUR 1903 FURNACE BOOK

MARCH-BROWNBACK STOVE CO.,
POTTSTOWN, PA.

EMPEROR FURNACES

For Wood

SIMPLE SAFE DURABLE

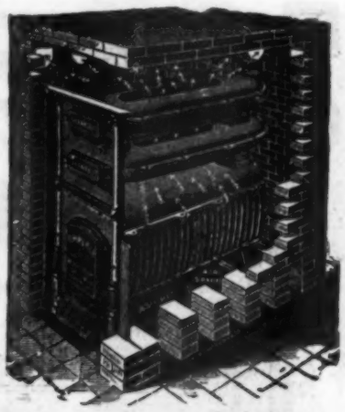
The Best and Cheapest Line of Wood Furnaces

FURNISHED FOR EITHER BRICK OR GALVANIZED IRON CASING.

Send for Catalogue.

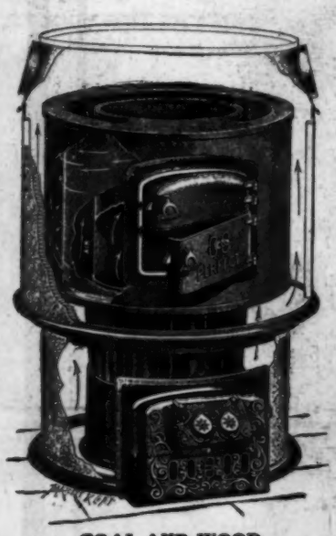
Bergstrom Bros Co.

NEENAH, WIS.



Richardson & Boynton Co.'s

"PERFECT" FURNACES



COAL AND WOOD

Are Universally Known as First Class Goods.

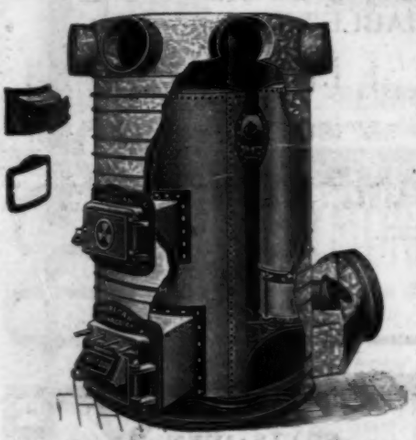
SEND FOR CATALOGUES

Established 1837.

SOFT COAL.

84 LAKE ST., CHICAGO, ILL.

232-234 Water St., New York. 51 Portland St., Boston, Mass.



Burn Hard or Soft Coal or Coke. Large Doors.

REASONS

Why the American Furnace Should Receive First Consideration

It is strictly smoke and gas tight.
It is made of heavy wrought steel and will not crack.
It has more effective heating surface than any furnace made.
Its surfaces are all smooth, and no dust receptacles.
It burns either hard coal, soft coal, coke, wood or natural gas.
It can be managed by the average house help.
Its surfaces are all perpendicular, therefore a powerful heater.
It heats the largest volume of air with a given amount of fuel; thereby furnishes warm air instead of hot air.
It is very powerful, durable and economical.
Its surfaces are all curved, which prevents buckling.
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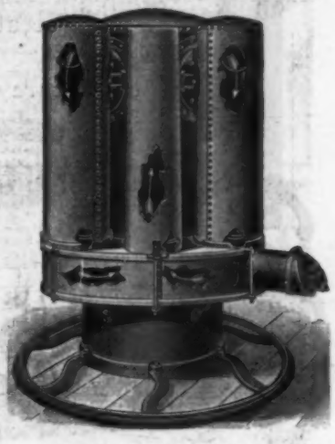

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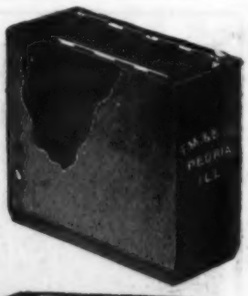

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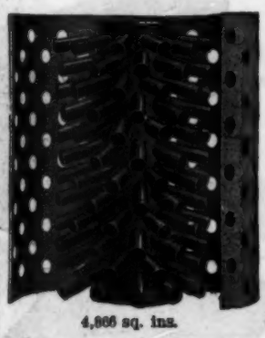

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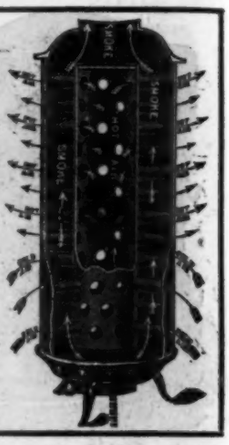

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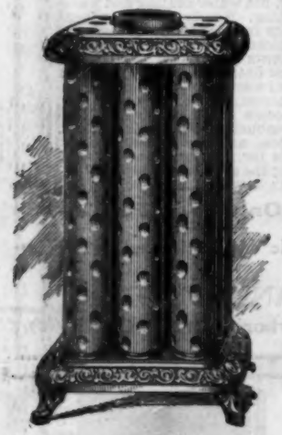

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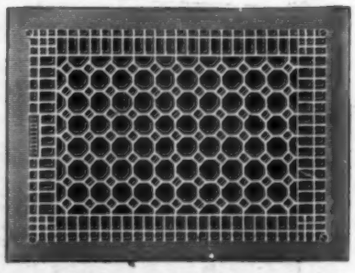

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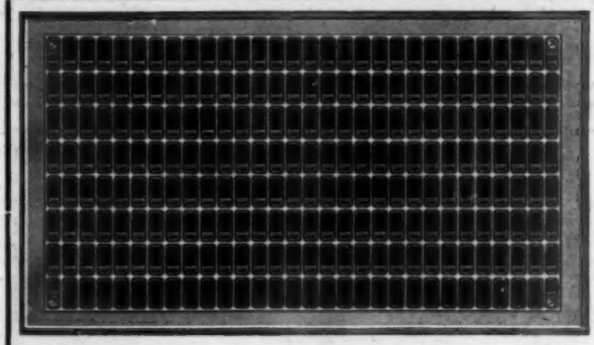

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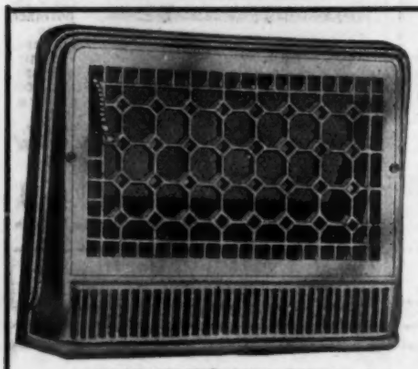

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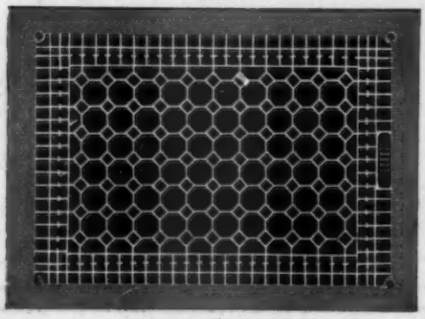

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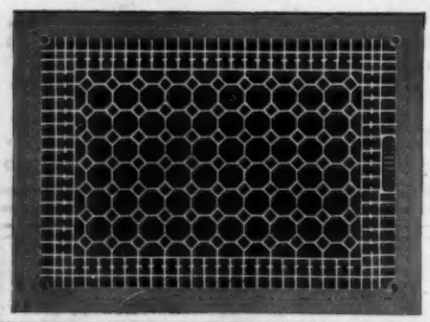

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CHICAGO, AUGUST 1, 1903.

THE protracted strikes in New York City are practically over and the men in building trades who have been out under the control of Samuel J. Parks are forming new unions and are going to work on a new basis of emancipation from the control of walking delegates. This means a great stimulus to building in New York City.

IT is encouraging to note that the harvesting of winter wheat is now nearly completed save in a few of the northern states, according to the consensus of opinion of several leading dailies. The outlook for spring wheat is not favorable, the crop having suffered from heavy rains in South Minnesota and from rust in Iowa, while in a limited area the late sown crop appears to be beyond recovery. Corn has made favorable progress generally, and with some exceptions is in a good state of cultivation, despite a deficiency of rain in portions of Indiana, Missouri and the southwest. If the crop season has so far not been as satisfactory to farmers as it promised to be at the close of spring it has fortunately been free from intense and prolonged drought in the great agricultural states of the central valleys, and in the areas where rain is now most needed there is still time for this deficiency to be supplied. In the northern sections, in which the temperature has recently been deficient, it is reasonable to expect warmer weather during the next fortnight and quite late in August.

TO THE current bi-monthly publication of the American Academy of Political and Social Science Mr. Talcott Williams, L. L. D., of Philadelphia, contributes an exceedingly instructive article entitled "Ethnic Factors in South America." Mr. Williams points out that, both in this country and Europe, a great deal of misconception exists concerning South America and its people. The areas of North and South America are not greatly dissimilar; but while in the former continent nearly one-half of the area is found between the 30th and 50th parallels of north latitude, in South America only about one-eighth of the area is found between the 30th and 50th parallels of south latitude; in other words, while three-quarters of South America is in the tropical zone, only one-fourteenth of the area of North America is thus located. Again, North America is a continental region which has been slowly built up from the earliest paleozoic time over a broad, determined and differentiated area, while South America represents the relatively recent emergence of a great chain of mountains, flanked by an immense plain which stretches from the mouth of the Orinoco to the mouth of the La Plata.

THE allegations and revelations made in the case of Lawrence Murphy, recently convicted in New York City for misappropriation of money as treasurer of the Journeymen Stonecutters' Union, may well be characterized as startling and sensational.

To expose the criminality and prosecute the offenders is as essential to the welfare of fair dealing labor unions as it is to the community. Within bounds of right and reason labor organization is recognized by law and popular sentiment. It has been commended by the president of the United States and favored by state legislation. The great body of employers make no issue with fair and just union regulations; it is union abuses and tyranny they object to. In short, labor organizations and unions managed with due regard to the rights of employers and the interests of the community stand well before the public and the law.

But neither law nor public sentiment will tolerate or countenance such shameful extortion as has been charged and revealed, and no reputable labor union, no honest labor leader or member can afford to countenance or condone it. It is more than an outrage on the victim, more than a detriment to the community, more than an injury to organized labor. It is a crime that calls for prosecution and punishment. It is a practice to be stamped out, and this should be demanded and aided by every labor union and every honest wage earner as strongly and sincerely as by every employer and every well-meaning citizen. Unless stamped out it would simply mean the ruin of any organization that would condone it.

Industrial Peace.

THE Universal Peace Union of Philadelphia is giving general distribution to a leaflet setting forth its understanding of the cardinal principles that should govern the relations between labor and capital.

To obtain a solution of pending difficulties, afford a relief from present distresses and secure justice to all, the following principles are essential to success:

1. The employer should have right of selecting, without dictation, the person he employs.

2. The person seeking employment should have the right of seeking that employment wherever he believes his services will be best appreciated and remunerated.

3. The right to organize for beneficent purposes belongs to all alike, and whether employer or employe belongs to any organization should be no obstacle to forming a labor contract.

4. Persons not members of any organization should have the right to seek employment and continue employed without molestation or interference by those connected with an organization.

5. Labor contracts, whether made for a week, a month or a longer period, should be considered binding by both employers and employes, to be amended, canceled or renewed only with the consent of each contracting party.

6. Employers should not be required to abide by regulations or laws of organizations, in the construction of which they have had no voice.

7. Due notice of any change in the work of time affecting prices of labor and cessation of, or discharge from employment, should be given by the employer to the employed.

8. Due notice of leaving employment should be given to the employer by the employed.

9. Violence of any kind on the part of capital or labor is never conducive to the best interests of either.

10. Misunderstandings, not otherwise adjustable, should be submitted to a tribunal of arbitration, and each contract should contain a clause providing therefor.

11. Pending the adjustment or arbitration of difficulties employers and employes should continue their relations as before, and any settlement not otherwise agreed upon should date from the beginning of the difficulty.

The Publication of Hardware Prices.

ANY retail hardware dealer will tell you of the annoyance he is caused by the catalogue house policy of deluging the guileless farmer with their bulky literature, which contains reiterated injunctions to "use this book as a check on your retail dealer to see he does not rob you." The "foxy" rustic acts on this utterly unfounded advice and after pricing several goods in the hardware store triumphantly "yanks" out this catalogue from the seat of his overalls and points to the price made on a stove with an oven two sizes smaller than the dealer's or an unguaranteed wringer and says, "You'll have to come down in price, Hank, or I'll send to Chicago for those goods."

The *onus* of explanation is on the dealer. If he is an adept he points out the matter of freight and emphasizes the difference in quality so convincingly that he secures the sale, notwithstanding the wonderful catalogue. If he is a fledgling he as likely as not lets out a tirade of abuse that sends his bucolic customer away fully convinced that he has been worked as an easy mark for many a moon.

It would be impossible to state what percentage of the thousands of requests for Sears, Roebuck & Co.'s and Montgomery Ward & Co.'s catalogues comes from farmers who believe that these volumes will afford them a valuable criterion on prices, but it is certainly a heavy one. Buying is an art—a higher one in our opinion than selling. The cultured Mrs. Jones can get better value for a dollar than the ignorant Nora or Amelia in her kitchen. The man who has bought galvanized sheets for years will pick up an extra "five" ten times as often as the tyro. Knowledge of prices, of fluctuations, of market firmness, etc., are the stock in trade of the successful buyer.

The man who buys hardware, whether to sell same to the consumer or for a railroad company or an electrical concern or for manufacturers of machinery, knows that trade differentials effectually bar him from securing bed-rock discounts, and that as far as he is concerned the publication of "jobbers' actual lowest costs" in hardware trade papers is merely the dissemination of misleading and incorrect information. The publication of prices that are caviar to the general is not calculated to prove helpful in securing subscriptions in our opinion, as there is no reason why a man should desire to receive quotations if they are not authentic and he cannot buy from his jobber at the figure quoted.

Such a course cannot but have a deteriorating effect on the circulation of a hardware paper, as those interested buy a hardware paper for correct and authentic, not for misleading and incorrect data, and of course there is an impairment of the value of advertising space correlative with every diminution of circulation.

How about the wave of trade demoralization following the publication of misleading quotations?

How about the dissatisfaction both within and without trade circles, caused by the flaunting of quotations impossible to all except actual jobbers and large retailers who can put up a gilt-edged bluff at being jobbers?

Productive as well as distributive branches of trade suffer from such publication of unauthentic quotations.

The publication of these misleading and incorrect prices have been breeding such an aggravating litter of trade abuses that the influential Southern Hardware Jobbers' Association took the matter in hand at their Saratoga meeting July 17, 1903, and prepared the following resolution expressing their views on the subject:

Whereas, the policy adopted by some of the leading hardware and metal journals of publishing jobbers' actual lowest costs is proving seriously detrimental to jobbers' interests.

Be it resolved, that we request the manufacturers to cooperate with us in an earnest effort to put an end to this injurious practice.

This clearly defined declaration of the jobbers' views on this matter was presented to the American Hardware Manufacturers' Association, who gave it careful attention and then passed the following resolution:

Resolved, that, being in sympathy with this resolution, we advise an individual effort to prevent the publication by trade papers of maximum discounts of the trade manufacturers.

The publisher of THE AMERICAN ARTISAN, in an address delivered before the National Hardware Association at Cleveland, October 10, 1901, unequivocally laid down the policy of this paper on this question as follows:

"The only paper I know of which I think is right in quoting manufacturers' prices is a certain whisky paper which circulates among jobbers exclusively, and which no retail saloon keeper can secure any more than he can secure a kind word from Carrie Nation. I do not think a hardware trade paper should quote manufacturers' prices. Who is benefited by such a procedure anyway? If the manufacturer is helped by having the quotations he makes to jobbers appear in a paper that goes to the retail hardware dealers it would be an evident *reductio ad absurdum* to state that he would also be benefited by having the prices at which his goods are sold to

the retail trade appear in a daily newspaper which goes to the consumer. All will admit that a manufacturer who would put an advertisement in the Cleveland Plain Dealer, saying: 'My goods are sold to the jobbing trade at 60 cents each, who sell them to the retail trade at 75 cents each, who sell them to the consumer at $1 each,' would not make many friends, but would make a great many enemies.

"I can not see where such an announcement from this differs at all in principle from one in a hardware trade paper going principally to retail dealers of manufacturers' prices to jobbers."

THE AMERICAN ARTISAN stands to-day on this question precisely where it stood Oct. 10, 1901, and for that matter, where it has stood since its establishment, July 1, 1880.

To summarize, we would say: It is a duty a hardware paper owes its readers to promptly report *all fluctuations in manufacturers' prices,* but the only actual prices that should be published are the *prices made by jobbers at some specified location or locations.*

RANDOM SKETCHES.

BY SIDNEY ARNOLD.

FROM the Buffalo Times of July 23 I learn that "by chance five men stepped into the hardware store of Richard Reed of Sinclairville this week whose ages aggregated 449 years. They were George Sinclair, 92; Aaron Van Vleck, 92; Hiram Sears, 92; Albro Fessenden, 87; and Charles H. Blanchard, 86. All enjoy good health."

* * *

I HAVE known many "nervy" men in my life. A young man suffering from a discreditable disease once went to Dr. Shrady, the leading New York physician, and secured a free prescription. Then he asked the great doctor for a loan of half a dollar to get it filled. Perhaps it is this same young man who is in the racket store business and while handling all manner of cheap tinware in competition with a legitimate hardware dealer located next door, cheerily advertises as being "Next to Robinson's."

SMITH & JONES
PROPRIETORS OF
The New Racket Store
See our stock of Tinware, Glassware, and FRESH GROCERIES.
Our line of Stationary and School supplies is complete. We want to buy all your produce.
These goods are all fresh and are selling at low prices. We need your trade and will treat you right.
(NEXT TO ROBINSON'S)
Country Produce Bought & Sold.

* * *

AN English debtor sued a paper which published a list of his creditors, but the action was dismissed with costs. If there had been a law in this country prohibiting the publication of lists of creditors some of our leading hardware jobbers and manufacturers would not have felt so bad when Roberts, the Minneapolis catalogue house man, went to the wall.

* * *

IT is said that an Iowa hardware man, on being pressed by a traveling man for his reason for staying away from the convention of his state association, stated that he would go when he could afford a new overcoat. This excuse won't go with the forthcoming Michigan meeting.

* * *

THE Michigan city that fails to set up as a summer resort is a *rara avis,* but Detroit can give most of the bunch cards and spades on summer attractions as well as population, and the Michigander who goes to the convention Aug. 12 will have a pleasant as well as a profitable time.

* * *

THE Ypsilanti Windmill Guarantee Co. has been formed in Ypsilanti, Mich., with a capital stock of $5,000 for the purpose of guaranteeing windmills against damage or destruction. I think this is a good idea and am soliciting capital for the purpose of forming the Sidney Arnold Steel Range Guarantee Co., THE AMERICAN ARTISAN Firebrick Warranty Co., the Chicago Oak Stove Insurance Co. and the Universal Saw Guarantee Co. Stock in any of these concerns may be had for 5 cents for $1 worth of stock, same to advance to 10 cents on Aug. 10. Readers of this column will remember how the Bell Telephone Co. started with stock at a low value. See what that stock is worth today. The Chicago Oak Stove Insurance Co. will duplicate its success. Of course, these pleasantries are no reflection on this new Ypsilanti concern. In these days of cyclone insurance, plate glass insurance, lightning insurance, etc., why not have windmill insurance?

* * *

IN connection with this subject of windmill insurance here is a query: Eliphalet Topnoodle is a Kansas gentleman who has invested in cyclone insurance, lightning insurance and windmill insurance to the limit. Along comes a cyclone that blows away his windmill, a flash of lightning striking it just as the cyclone hits it, and at the same moment the windmill prematurely goes to pieces like the deacon's "one-hoss shay" from defective construction. Where does Topnoodle get his insurance?

* * *

THE Michigan Tradesman tells of a new "steel boot" factory at Hillsdale, Mich. The despots with "iron heels" you and I read about in school histories must have used this kind of footgear. Now that we have the steel boot, why not the steel stocking, the steel pantaloons, steel drawers, steel undershirts, steel neckties, etc.?

* * *

FROM the Indianapolis News of July 16 I learn that "the Detroit Stove Company registered its trade-mark, the word 'Jewel,' as applied to stoves and ranges, paying a fee of $2.50 to have the seal recorded in this state."

News Siftings.

The Peninsular Stove Co., Detroit, Mich., has increased its capital stock from $350,000 to $3,000,000.

Alex Morrison, Jr., Harry Hill and Joseph V. Clark are the incorporators of the Lehigh Iron & Steel Co., Jersey City, N. J., capitalized at $250,000.

Geo. W. Lattimer, Henry C. Taylor, R. R. Rickly, Allen W. Williams and Geo. R. Kauffman are the incorporators of the Lattimer-Williams Co., Columbus, O., capitalized at $100,000 for the manufacture and sale of stoves.

William A. Perrine of New York City, former Civil Service Commissioner and business agent of the Iron Molders' Conference Board, has resigned this position and will go to Philadelphia in the service of a stove concern.

Chas. H. Cosby, 423 West Broad street, Richmond, Va., manufacturer of the 20th Century patented air-tight baker and heater, desires to place a number of western agencies or to secure parties who will manufacture it on the royalty plan.

Arrangements have been completed for the formation of the National Coal & Coke Company, Pittsburgh, Pa., with $5,000,000 capital and $2,500,000 in bonds, which will take the place of the Frick Coke Company in the general coking business, since the latter has practically withdrawn from the market.

The Phillips & Clark Stove Co., Geneva, N. Y., for whom the Cook & Van Evera Co., 38 Lake St., Chicago, are western agents, have materially improved their popular line of Andes stoves and ranges for 1903 trade. Among their additions is the Ruby Andes, an entirely new medium priced base burner in four sizes.

JEWEL STEEL RANGES.

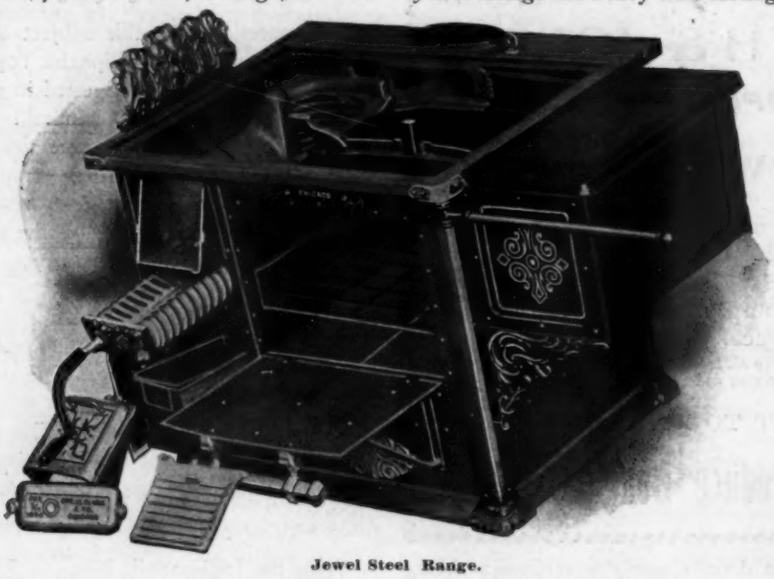
The Geo. M. Clark & Company Division of the American Stove Co., 72 Lake street, Chicago, are manufacturers of the Jewel steel range shown herewith.

The cut shows how, without a tool of any kind, by loosening two thumb screws only, practically all of the parts of a Jewel steel range can be reached or removed.

The duplex grate, the oven, with its only seam in the bottom, the arched top with the very heavy cast iron brace riveted across the center of the top, the large pouch feed opening and water front below and oven door, well braced, making a flat, broad shelf, are also shown.

The bodies are made with a triple wall of two steel plates, with thick asbestos board riveted together, which forms an indestructible, air-tight heat container; outside the best grade of heavy, polished steel, inside cold rolled steel. Square polished and nickeled steel corner posts interlock with the sides, a construction rigid and strong, yet without bolts, rivets or cement; if necessary, easily taken apart. The oven doors are double, stamped from solid pieces of heavy steel. Two braces support the door when open, making a strong, stiff shelf, perfectly smooth and clean. The stove top frame or rim is drawn from one piece of very heavy steel, formed under great pressure, therefore smooth, true and a perfect fit. It is practically indestructible. The anchor plates, covers and centers are very heavy, with ribs or fins on the bottom which prevent their warping. One nested ring cover is furnished with each range. Gray iron covers and centers are furnished. Gray iron castings for this purpose have stood the test of years and are still preferred by many leading dealers. All Jewel steel ranges can be furnished with pouch feed except when left-hand reservoir is specified. The Jewel pouch feed is very large and most convenient for broiling. Unless otherwise specified, this firm furnish the duplex grate. This is reversible to use either coal or wood, and without the use of a single tool or disturbing the linings or water front, can be removed. Jewel duplex grates require no frames or tracks.

The water fronts and water backs are of various kinds, tested under high pressure and very effective with any fuel. The fire box in Jewel ranges is so large that this firm's wood extension is seldom needed. Jewel linings are heavy iron castings with an air space behind. Collection of ashes at the back is impossible. The bodies are the best grade of polished steel. The corner posts and trimmings are carefully nickeled, and the general construction is up to the highest standard.



Jewel Steel Range.

Last season this firm entered the steel range field with confidence that discriminating dealers would appreciate the highest grade of mechanical construction and material which have made their gas and gasolene stoves stand so high. To these qualities they now bring the experience of a successful season and are offering the best steel range that men and money can make, according to their claims. They further claim that these ranges embody all practical features found in other ranges and a few of their own. Other features are the baled ash pan, flue, elbow of cast iron, nickeled towel rod, teapot shelves, etc.

INCANDESCENT GAS FUEL.

Sentiment is a great thing and we all have a sneaking fondness for the open fire places and "yule" logs of our grandfathers' day. The supply of wood for fuel purposes is limited, and we all know the countryman's description of a wood fire was not far out of the way when he stated that they wouldn't do without a wood fire even if he spent all his time chopping wood to put on the fire while his boy was busy carrying the aforesaid wood into the house and it took all his wife's time to put it on the fire. The Williams' Stove Lining Co., Taunton, Mass., make an incandescent fuel for gas stoves and basket grates that enables one to have the most up-to-date and economical fuels combined with the sentiment of an open fire. This incandescent gas fuel is made in 3 styles—styles Nos. 1, 2 and 3. No. 1 is red or white, also black, Nos. 2 and 3 are white, also black. Style No. 1 is irregular in size and runs about 200 in the cubic foot. Style No. 2 is 2x2¼x2⅝ and runs about 180 in a cubic foot, while style No. 3 is 1¾x1⅝x2¾, and runs about 240 in a cubic foot. This firm are manufacturers of brick stove linings for stoves, ranges and furnaces, cupola linings for brass and iron furnaces, fire bricks and blocks of every size and shape for every purpose, boiler settings, locomotive bricks and tile, plastic lining and fire brick cement, discs, tiles, cones, backs or slabs for all kinds of gas stoves or grates. Their Eagle fire clay is a plastic, durable fireproof mixture for making and repairing linings in coal stoves, furnaces and ranges. This firm will be glad to send samples of their incandescent gas fuel free by mail.

Style No. 1.

Style No. 2.

Style No. 3.

THE SCHILL OAK.

The Schill Bros. Co., Crestline, O., who have been very successful in the manufacture of furnaces and steel ranges, have placed on the market the Schill oak, shown in the accompanying cut.

The Schill Oak.

This stove has met with a very favorable reception from the trade. It is made in five sizes, 12, 14, 16, 18 and 20 inch, with or without hot blast and is a notable fire keeper

The Faultless Mfg. Co., 617 Austin avenue, Chicago, are bringing out a new malleable range styled the Signet. The malleable parts comprise the entire top, including three key plates, six covers, center pieces, pouch top and lid, entire reservoir top, entire drop end door, front and lining, entire oven door with hinges and supports, duplex grate support, damper and frame, hinges, corners, etc.

This firm have added to their line some new hot water attachments adapted for the Faultless and Signet malleable steel ranges or the Ideal malleable steel cook.

These cast enameled steel reservoirs are claimed to be the first on the market attached to malleable ranges.

The Hardware Record.

American Hdw. Mnfs. Assn.
Pres., F. R. Plumb, Philadelphia.
Vice-Pres.—F. S. Kretsinger, Ft. Madison, Ia.; J. C. Birge, St. Louis; Geo. W. Corbin, New Britain, Conn.
S.-T., F. D. Mitchell, Pittsburg.
Ex. Com., Robert Garland, Pittsburg; Henry B. Lupton, Pittsburg N.A. Gladding, Indianapolis; W. S. McKinley, Allegheny; F. L. Clark Birmingham; C. W. Asbury, Philadelphia; G. N. Landers, New Britain; C. H. Holt, Cleveland.

Arkansas Retail Hdw. Dealers' Assn.
Pres. J. F. Maxey, Ozark
1st V.-P., H. Williams, Hot Springs
2d V.-P. A. L. Skillern, Nashville.
S.-T., C. E. Taylor, Little Rock.
Ex. Com., C. T. Rosenthal, Batesville, T. B. Stewart, Newport, E. E. Mitchell, Morrilton. W. M. Graham, Clarendon, R. F. Roys, Russelville.

Chicago Retail Hdw. Dealers' Assn.
Pres., D. McLaughlin.
V.-P., H. E. Gnadt.
Sec., G. R. Lott.
Collector, John Hora.
Treas., J. L. Smith.

Hardware Merchants' and Manufacturers' Assn. of Philadelphia.
Pres William C. Peters.
V.-P., Thomas Devin.
Sec.-Treas., T. James Fernley
Directors, W. W' Supplee, H. McCaffrey, E. S. Jackson, W. C. Peters. S. Disston, E. Fisher, J. H. Ritter, T. Devlin, T. J. Fernley.

Illinois Retail Hdw. Dealers' Assn.
Pres., Charles H. Williams, Streator.
V.-P., W. T. Gormley, Chicago.
Sec., L. Nish, Elgin.
Treas., Geo. A. Engelhardt, Chicago.
Ex. Com., Charles H. Williams, Streator; W. T. Gormley, Chicago; L. Nish, Elgin; Geo. A. Engelhardt, Chicago; William Bittel, Peoria; F. F. Porter, Chicago; H. G. Cormick, Centralia; H. N. Murphy, Galesburg; C. Mauer, E. St. Louis; R. G. Scheurer, Vandalia.

Indiana Retail Hdw. Dealers' Assn.
Pres., E. M. Bush, Evansville.
1st V.-P., A. N. Shidler, So. Bend.
2d V.-P., W. B. Shipley, LaFayette.
Sec., M. L. Corey, Argos.
Ex. Com., M. L. Lewis, Marion; W. P. Lewis, New Albany; Charles Boonshat Petersburg; E. M. Bush, Evansville; M. L. Corey, Argos.

Indian Territory Retail Hdw. Assn.
Pres., J. G. Smith, Canadian.
1st V.P., Fred Parkinson, Wagoner.
2d V.-P., E. C. Stretch, Vinita.

Iowa Retail Hdw. Dealers' Assn.
Pres. S. R. Miles, Mason City
V.-P., L. Lindenberg, Dubuque.
Sec., H. S. Vincent, Ft. Dodge.
Treas., A. C. Vieth, Oakland.
Members Exec. Com., Jacob Seither, Keokuk; J. F. Doty, West Liberty; L. Lindenberg, Dubuque; S. R. Miles, Mason City; G. C. Paulson, Newhall; Paul DeVol, Council Bluffs; C. S. Barger, Albia; L. H. Kurtz, Des Moines; C. R. Keating, Mt. Ayr; L. A. Gnam, Carroll; C. E. Haas, LeMars.

Kansas Hardware Dealers' Assn.
Pres., Oscar Roehr, Topeka.
V.-P., E. J. King, Logan.
Sec.-Treas., J. A. Cole, Topeka.
Ex. Com., F. W. Bartlett, Kansas City; T. H. Kiniry, Beloit; J. M. Walters, Robinson; J. H. Hamilton, Arkansas City; T. J. O'Neill, Osage City.

Kentucky Retail Hardware and Stove Dealers' Association.
Pres., W. T. Oldham, Mt. Sterling.
1st V.-P., W. S. Shacklett, Fulton.
2d V.-P., Jos. C. Kirchdorfer, Louisville.
Sec., Paul Wagner, Louisville.
Treas., Henry Heick, Louisville.

Michigan Hardware Association.
Pres. T. Frank Ireland, Belding.
V. Pres., John Popp, Saginaw.
Sec., A. J. Scott, Marine City.
Treas., H. C. Weber, Detroit.
Ex-Com., J. B. Sperry, Port Huron; F. A Turner, Caro; J. G. Patterson, Detroit; F. S. Carlton, Calumet; S. E. Hunt, Detroit; Samuel Winchester, Jackson; Fred S. Cook, Fowlerville; C. E. Pipp, Otsego; A. Harshaw, Delray; A J. Scott Marine City.

Minnesota Retail Hardware Assn
Pres., W. H. Tomlinson, LeSueur
V.-P., H. S. Cleveland, Minneapolis.
Treas., W. E. Barto, Long Prairie.
Sec., M. S. Matthews, Mnpls.
Exec. Com., W. H. Tomlinson, Le Sueur; H. S Cleveland, Minneapolis; F. E. Hunt, Red Lake Falls; Benj. F. Kernkamp, St. Paul; C. H. Hornburg, New Ulm; J. Cowing, Alexandria; C. H. Casey, Jordan; C. F. Ladner, St. Cloud; J. Schmidt, Wabasha; A. T. Stebbins, Rochester; J. McGuire, St. Paul.

Missouri Retail Stove and Hardware Dealers' Association.
Pres., Tayler Frier, Louisiana.
V.-P., E. L. Wachter, St. Louis.
Sec., F. N. Neudorff, St. Joseph.
Ex. Com., J. W. Poland, Carrollton; F. N. Kannsteiner, St. Louis; W. T. Shoop, Richmond.

National Hardware Association.
Pres., R. A. Kirk, St. Paul.
1st V.-P., John C. Koch, Milwaukee.
2nd V.-P., Brace Hayden, San Francisco.
Sec.-Treas., T. James Fernley, Philadelphia.
Ex. Com., John Freeman, Detroit; Samuel B. Bigelow, Boston; P. E. Strauss, Boston; J. D. Moore, Birmingham; R. M. Dudley, Nashville; W. S. Wright, Omaha.
Advisory Board, W. W. Supplee, Philadelphia; H. H. Bishop, Cleveland; John Bindley, Pittsburg; R. W. Shapleigh, St. Louis.

Nebraska Retail Hdw. Dealers' Asn.
Pres. C. A. Peterson, Oakland.
1st V.-P. Nathan Roberts, Omaha.
d V.-P. Alex Meyer, Hastings.
3d V.-P. Frank Hacker, Friend.
Sec.-Treas., Harry Hall Lincoln.

National Retail Hdw. Dealers' Asn.
Pres., W. P. Bogardus, Mt. Vernon, O.
V.-P., C. H. Miller, Pennsylvania.
Sec., Treas., M. L. Cor y, Argos, Ind.
Ex. Com., H. G. Cormick, Centralia, Ill.; Sharon E. Jones, Richmond, Ind.; T. F. Ireland, Belding, Mich.; L. Lindenberg, Dubuque, Iowa; A. T. Stebbins, Rochester, Minn.

N. Dakota Retail Hdw. Dealers' Asn.
Pres., H. N. Joy, Hamilton.
1st V.-P., H. F. Emery, Fargo.
2d V.-P., Frank Lish, Dickinson.
3d V.-P., H. B. Allen, Jamestown.
Sec., C. N. Barnes, Grand Forks.
Treas., W. H. Pinkerton, Lakota.
Ex. Com., E. E. Elliott, Sanborn; H. F. Strehlow, Casselton; Hurbert Harrington, Fargo.

Ohio Hardware Association.
Pres., W. P. Bogardus, Mt. Vernon.
V.-P. J. F. Baker, Dayton.
Cor. Sec., D. R. Burr, Piqua.
Fin. Sec., W. C. Jones, Columbus.
Treas., H. A. Waller, Ravena.
Ex. Com. F. A. Powers, Norwalk; Geo. Hartke, Cincinnati; E. Fisher, Wapakoneta; J. C. Snyder, Ironton; E. M. Potter, Cleveland.

Pennsylvania Retail Hdw. Assn.
Pres., Geo. L. Moore, Brownsville.
V.-P., Geo. J. Rudolph, Pittsburg.
Sec., J. E. Digby, McKees Rocks.
Treas., B. A. Maggine, Braddock.
Ex. Com., E. E. Lyon, Greensburg; C. N. Savage, California; B. A. Maggine, Braddock; C. O. Shroyer, Dawson.

St. Louis Stove Dealers' Assn.
Pres., Wm. H. Hahn.
1st V.-P., G. A. Pauly.
2d V.-P., E. L. Wachter.
Sec., Louis Boehl.
Treas., E. Wertz.

Southern Hardware Jobbers' Assn.
Pres., W. M. Crumley, Atlanta, Ga.
1st V.-P., John Donnan, Richmond, Va.
2d V.-P., E. A. Peden, Houston, Texas.
Ex-Com., Bruce Keener, Knoxville, Tenn.; Chas. Ireland, Greensboro, N C.; O. B. Barker, Lynchburg, Va.

Texas Hardware Jobbers' Assn.
Pres., J. C. Bering, Houston.
1st V.-P., J. Burnside, Ft. Worth.
2d V.-P., J. Taylor, Sherman.
Sec.-Treas., R. Bell, Weatherford.

Wisconsin Hdw. Dealers' Assn.
Pres., L. Findiesen, Green Bay.
V.-P., H. L. McNamara, Janesville.
Sec.-Treas., C. A. Peck, Berlin.
Ex. Com., J. Kornelly, Milwaukee; E. H. Ramm, New London; H. S. Scofield, Sturgeon Bay; R. Murdoch, Beloit.

THE AMERICAN ARTISAN AND HARDWARE RECORD is the only publication containing western hardware and metal prices corrected weekly. You will find these on pages 44 to 48 inclusive.

It is said that Bradford, N. Y., will shortly have a cutlery factory.

The John J. McGrath Hardware Co. are a new Hastings, Neb., concern.

The Quackenbush Hardware Co. are a new Paterson, N. J., concern capitalized at $50,000.

M. A. Briggs has succeeded J. M. Briggs as president of the W. H. Briggs Hardware Co., Valdosta, Ga.

W. P. Clark, O. B. Barker and D. A. Bonitz are the incorporators of the W. P. Clark Co., Lynchburg, Va., who will do a wholesale hardware business.

A. J. Beaver, Richard Baird, S. W. McCombs, F. M. Peck and W. T. McGuire are the incorporators of the Jellico Hardware Co., Jellico, Tenn., capitalized at $25,000.

The Cuyahoga Wire & Fence Co., with plants at Cuyahoga Falls, O., and New Castle, Pa., have removed their offices from Cuyahoga Falls to New Castle.

William S. Ingram, Thomas B. Steele, Miles L. Peck and Edward D. Dunbar are the incorporators of the Bristol Trunk Hardware Co., Bristol, Conn., capitalized at $50,000.

Edw. Frensdorf is president, J. M. Lamb is vice-president, A. C. Mills is secretary and A. M. Lamb is treasurer of the Globe Fence Co., Jackson, Mich., capitalized at $500,000.

W. E. Dillon, R. D. Marsch, E. H. Ritchie and O. C. Carlson are the incorporators of the Carlson-Dixon Gas Engine Manufacturing Co., Guthrie, Ok. Ter., capitalized at $150,000.

Wm. H. Schaefer, J. G. Shryock and W. C. Johnson are among the incorporators of the Yale Mfg. Co., St. Louis, Mo., capitalized at $2,400, for the manufacture of brass, copper and metal goods.

J. J. Mandlebaum of the Fones Bros. Hardware Co., Little Rock, Ark., and ex-president of the Southern Hardware Jobbers' Association, was a recent visitor at THE AMERICAN ARTISAN office.

The Indiana Shovel Co., New Castle, Ind., and the Xenia Handle Co. have consolidated under the style of the Indiana Rolling Mill Co., New Castle, Ind., and the capital stock of the combined companies has been increased to $400,000.

Theo. P. Huffman, 648-650 West Thirty-fourth street, New York, handles all kinds of packing material, such as chaff, hay, straw, fine excelsior, coarse excelsior and ribbon excelsior. He also supplies an extended list of articles for both export and domestic trade.

The Central Mfg. Co., 198-200 State street, Binghamton, N. Y., send us a circular describing the "Stewart" gas and air heated pressing irons. The Stewart iron furnishes its own air, does not smoke or smell, heats quickly and is guaranteed to keep hot enough for steady work. These irons are made goose-shape with bottom 10x4 inches in size and 8x3¼ inches in size,

and flat shape with bottom 9¾x5¾ inches and 8½x5¼ inch size.

The Keckonen Hardware Company, Calumet, Mich., has been awarded the contract of constructing the ventilating system for the new Laurium public school at that city. It will take over 10,000 pounds of galvanized iron to complete the job, which is the largest ventilating system that has so far been put in in any Calumet public building.

Chas. Swaine, Chas. F. Mauer, P. C. DeVol, Sr., P. C. DeVol, Jr., Henry Petersen, Will Petersen, C. W. Brelsford and James Michelson, hardware men of Council Bluffs, Ia., were entertained by Theodore N. Petersen of that city on July 21 last, the dinner in question being held by Mr. Petersen in honor of his approaching marriage.

The Pike Mfg. Co., Pike Station, N. H., are headquarters for scythe stones, oil stones, razor hones, etc. They have quarries and factories at Hot Springs, Ark.; Orleans, Ind.; Evansville, Vt.; Littleton, N. H., and Pike Station, N. H. Their India oil stones are of a uniform grain throughout and cut fast and wear long. This firm have sharpening stones for everything that has an edge.

The Hopkins & Allen Arms Co., Norwich, Conn., make a most complete line of double guns, including hammer guns with decarbonized steel barrels, Stubbs' twist steel barrels or Damascus steel barrels, hammerless guns in Stubbs' twist steel barrels, also Damascus barrels. This firm would be pleased to send one of their latest catalogues to the trade on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

The annual meeting of the Humason & Beckley Manufacturing Company, New Britain, Conn., was held July 27. The following directors were elected: W. L. Humason, V. P. Humason of New York, F. S. Beckley, L. A. Barbour of Hartford, F. N. Wells. At a subsequent meeting of the directors the following officers were elected: President, W. L. Humason; treasurer, V. P. Humason; secretary, F. S. Beckley; assistant treasurer, F. N. Wells.

E. H. Titchener & Co., Binghamton, N. Y., send us their latest catalogue and price list of staples, double-pointed tacks, wire nails, pins, links, etc. Their line of goods includes basket handles, basket hooks, bed links, crate hooks, double-pointed tacks, dowel pins, hoop clasps, nails and brads, pail ears, pail washers, basket handle staples, barbed spring staples, blind staples, broom staples, clamp or butter tub staples, electricians' staples, fence staples, flat steel spring staples, hoop (or barrel) staples, light clamp staples, poultry netting staples, steel clinch staples, tube staples, wire cloth staples, tag hooks, wire shapes and wire. One of these catalogues will be forwarded the trade on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

C. C. Hildebrand, sales manager of the automobile department of the J. Stevens Arms & Tool Co. of Chicopee Falls, Mass., in a recent interview on the progress of the automobile industry, said: "We manufacture a gasoline car, equipped with a double cylinder of the horizontal opposed type. We have been unable to fill all the orders taken at the New York Horse Show, and believe that the outlook for business for the future is very bright indeed, particularly for the manufacturers who are building strictly high-grade machines. Our J. Frank Duryea, who is the originator of the Stevens-Duryea, is one of the pioneers in the automobile business. Mr. Duryea won a prize of $2,000 with one of his cars in Chicago ten years ago, the contest being made in snow."

The Standard Varnish works, New York, send us a little booklet entitled "The Dainty Decorator," telling about "Laqueret," which is made with soluble, permanent colors, combined with an elastic, hard drying and lustrous liquid. It possesses individual and exquisite color richness and remarkable working freedom. It wears surprisingly, retains its color beauty for an exceedingly long time and can be applied with satisfactory results by any one able to wield a brush. It does not cloud nor disfigure the natural grain of the wood. It is thoroughly sanitary (being hard drying and non-porous) and produces a finish so elegant and durable that its excellence is conceded by all who use it. Lacqueret is designed for beautifying and preserving old furniture, marred and soiled woodwork, dingy and dirt-stained floors and a hundred and one furnishing odds and ends that, worn and abrased, disfigure the living rooms or "clutter" the storeroom or attic. Lacqueret not only restores old and lusterless wood surfaces to their pristine tone and tint, but covers up original defects and obliterates the frays and scars of usage and abuse.

One of these booklets will be forwarded the trade on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

A PENCIL INDEX.

The poet tells of the man to whom a yellow cowslip was a yellow cowslip and nothing more. To the uninitiated a pencil is a pencil. Those on a slightly higher plane of intelligence recognize hard and soft pencils. The pencil industry has been keeping up with the procession in this age of progress and specialization, and it is interesting in looking over "Dixon's Index for Pencil Users," sent us by the Jos. Dixon Crucible Co., Jersey City, N. J., to note that special pencils are provided for the following classes of commercial and industrial workers—viz., accountants, advertisement writers, architects, artists, bank clerks, bank tellers, bookkeepers, builders, car inspectors, carpenters, checking clerks, claim agents, clergymen, clerks, cloth merchants, conductors, designers, draftsmen, editors, engineers, entry clerks, express employes, freight service, hotels, housekeepers, insurance agents, lawyers, leather workers, lumbermen, mechanics, merchants, metal workers, newspaper writers, office workers, physicians, pressmen, produce dealers, railroad companies, railroad agents, reporters, restaurants, salesmen, shipping clerks, station agents, steamships, stenographers, students, supervisors, tailors, teachers, telegraphers, telegraph editors, trainmen and typewriters.

One of these booklets will be forwarded the trade on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

ILLINOIS HARDWARE DEALERS MUST SECURE REGISTERS.

By registers we do not mean side wall registers, although several dealers have told us they were a profitable line to handle, nor yet cash registers which materially reduce hardware store bookkeeping and prevent leakage, but registers for revolvers. These books are not ornate affairs, as any discarded ledger of 1901 or 1894 with a few blank pages will answer the purpose admirably, but there must be a register for Chicago hardware men or else a trip to Justice Philip Koehler, 39th st. and Cottage Grove av., Chicago. An organization styled the Citizens' Mutual Alliance has been adding to July torridity as far as the hardware fraternity are concerned, and over a hundred hardware men have been hauled before the South side justice and fined $7 as costs for their failure to keep a register as provided by the Illinois statutes. The statute became a law July 1, 1881, and reads as follows:

54C of Chapter 38 of the criminal code: Register to be Kept—What it Shall Contain.—All persons dealing in deadly weapons at retail within this state shall keep a register of all such weapons sold or given away by them. Such register shall contain the date of the sale or gift, the name and age of the person to whom the weapon is sold or given, the price of the said weapon, and the purpose for which it is purchased or obtained. The said register shall be in the following form:

Number	To whom sold	Age	Kind of weapon	Date of sale	For what purpose purchased	Price

Said register shall be kept open for the inspection of the public, and all persons who may wish to examine the same may do so at all reasonable times during business hours.

A failure to keep such register, or to allow examination of the same, or to record therein any sale or gift of a deadly weapon, or the keeping of a false register, shall be a misdemeanor and shall subject the offender to a fine of not less than $25 nor more than $200.

This statute remained obsolete by disuse for over 20 years until suddenly it was taken up some three weeks ago by a mysterious concern self-styled the Citizens' Mutual Alliance, who had been prosecuting pawn brokers for selling slung-shots, and over 100 hardware dealers were prosecuted under its provisions. Consequently it behooves every hardware dealer in the state of Illinois to be on his guard in this matter and to post all his help.

He should get a register—any old book will do—and make all entries in the manner presented herewith. Then he can snap his fingers at the Myrmidons of the Citizens' Mutual Alliance. Secretary G. R. Lott of the Chicago Retail Hardware Dealers' Association has requested us to notify all hardware men that they can obtain the number of any revolver by unscrewing the rubber piece in the handle, and that this matter is one that it is imperative for them to attend to at once. Nearly all leading hardware men in the city have already been prosecuted under this charge, and on July 25 six Evanston hardware men were invited to take a trip to Justice Koehler at 39th st. and Cottage Grove av. That this Citizens' Mutual Alliance is a mysterious concern is shown by the following slightly skeptical write-up in the Chicago Tribune of June 28th, 1903:

"The recent resurrection of a long forgotten statute restricting the sale of metallic knuckles, slungshots and "billies" and the prosecution under it of a number of Chicago business men, has brought into the public eye the Citizen's Mutual alliance, whose representatives, Attorney W. V. Tyler and Detective Leon Lewis, have been active in prosecuting the suits. In observing its work so far the public has found some things to excite its curiosity as to the personnel of the alliance and its real objects. That there are some conflicts between its claims and the statement of others to which its representatives refer is evident.

"In commencing a number of suits before Justice Caverly, Tyler and Lewis are alleged to have represented that they were in some manner allied in work with the compulsory education department of the board of education. This claim Supt. Bodine of that department repudiates.

"That the men put forward by Tyler and whose names appear on the articles of incorporation of the alliance were not its real backers the attorney admitted, but declined to make known the identity of the "real backers." The membership of the association also was withheld by the attorney. The statement of objects made by the attorney and the real work of prosecuting merchants for the sale of weapons prescribed by statute are also at variance.

"Of the representations of officers of the alliance that they were working in conjunction with the board of education Supt. Bodine said:

"'In so far as the securing of evidence of the sale of firearms to schoolboys and truants is concerned, the department of compulsory education will have such cases attended to by its own officers and the city police. The Citizens' Mutual alliance has no authority to represent itself as being in any manner connected with the board of education. Mr. Lewis stated to me that his organization was formed to prevent the sale of firearms, knuckles, etc., to children as well as adults.'

"This statement appears to be at variance with the reported statement of Tyler and Lewis to Justice Caverly that the truant officers of the compulsory education department were doing some detective work for the alliance. The statement made by Lewis to Mr. Bodine of the objects of the alliance is also in conflict with the statement of its objects made to the Tribune by Mr. Tyler.

"'The alliance,' said he, 'is protective and advisory. It is to protect its members against being imposed on by those seeking charity and to advise who are worthy of charity. It is to protect its members against aggression on the part of those who seek to victimize them because of their philanthropy; to defend them in damage suits that may be brought as the results of their charitable activities, and suits defamatory of character or for purposes of blackmail. Many of the members are people of a religious nature, who are natural marks for the blackmailer because of the scandal which any accusation against them would create.'

"The incorporators of the alliance, as given by Mr. Tyler, are: The Rev. Cyrus Miller, who lives "near Springfield," president; W. V. Tyler, 6507 Marshfield avenue, Chicago, attorney; J. M. Walker, farmer, "near Evanston"; Henry Rice, a retired merchant of South Chicago; Mathew Lipstein, formerly a rabbi, but now without a congregation, resident of St. Louis; H. C. Wells, a traveling evangelist.

"The Evanston directory does not contain Mr. Walker's name, and Mr. Lipstein is not in the St. Louis or East St. Louis directory. The only Cyrus Miller to be found in the Springfield directory is an employe in a plow factory, and knows nothing of the alliance. The name of Henry Rice does not appear in the South Chicago directory, and at the addresses given for two men of the name of H. Rice no such persons could be found."

In spite of the fact that they claim to "co-operate with charitable organizations," Ernest P. Bicknell, superintendent of the Chicago Bureau of Charities, informed the writer that although that leading charitable

body was formed "to promote co-operation among the philanthropic forces of Chicago," the Citizens' Mutual Alliance has never shown any disposition to pull their door bell, nor has that organization been more successful than the Chicago Tribune in finding local habitations of any of the Alliance officers except Attorney Tyler.

In a circular of an anonymous character sent out by the Alliance, the request is made, "After you have become familiar with the work of the Alliance, you may, if you wish, make any voluntary subscription you think proper." Chicago hardware dealers will doubtlessly respond to this appeal with characteristic liberality.

THE WINCHESTER AUTOMATIC .22 CALIBER REVOLVER.

The Winchester Repeating Arms Co., New Haven, Conn., are offering the trade the Winchester .22-caliber automatic rifle, 1903 model, shown in the accompanying cut.

The Winchester Automatic .22 Caliber Revolver.

This is a ten-shot, automatic, hammerless, take-down rifle, adapted to a new .22-caliber rimfire cartridge loaded with smokeless powder and the Winchester greaseless bullet. It is simple in construction and operation, and is the first automatic rifle on the market and the only automatic arm using the inexpensive rimfire ammunition. The rifle has grace of outline, light weight, certainty of operation, ease of manipulation and novelty of action, making it a most desirable and up-to-date gun. There are innumerable uses for which the Winchester automatic rifle will be found particularly well adapted, among them being wing shooting or fancy shooting. Its loading without movement of the firer enables continued accurate aim and rapid discharge, and only to be appreciated after trial. One brain shot with this gun instantly killed a horse, and a hog weighing 370 pounds was also killed at one shot. In the automatic action of the model 1903, there are no moving parts outside the gun to injure the hands, catch in the clothing, brush, etc., and, being simple in construction, it is not apt to get out of order with any ordinary use. After filling the magazine and throwing a cartridge into the chamber, all that it is necessary to do to shoot the ten cartridges that the magazine holds is to pull and release the trigger for each shot. The rifle can be shot as fast as the trigger can be pulled; and with its rapidity of fire is combined the accuracy for which all Winchester rifles are famous. When a shot is fired, the recoil from the exploded cartridge ejects the empty shell, cocks the hammer and throws a fresh cartridge into the chamber.

.22 Winchester Automatic Cartridge.

The Winchester model 1903 automatic rifle is made with blued trimmings, a plain walnut stock and forearm, not checked, and a 20-inch round barrel, fitted with open front and rear sights. Weight about 5¾ pounds. The stock is 13¼ inches long; drop at comb, 1¾ inches; drop at heel, 3¼ inches; length of gun over all, 36 inches. Fancy walnut stocks and forearms and plain or fancy walnut pistol grip stocks, checked or unchecked, are the only variations from the standard gun that will be furnished.

AN APPEAL FOR NEW MEMBERS.

Secretary M. S. Mathews of the Minnesota Retail Hardware Association is sending out the following effective soliciting circular:

"Since the formation of the first retail hardware organization at Columbus, Ohio, ten years ago, association work and methods have greatly developed. Thirty states are now in line, a large majority being in the 'National,' and there never was a time when the outlook for successful association work was more promising. The Philadelphia meeting in May of representatives of the hardware manufacturers, hardware jobbers and retail hardware dealers was a step in the right direction and cannot fail to produce good results. Among the states in the National Association, Minnesota holds first place and has largest representation, but some of the older states are hot after us, and we must do something towards pushing our membership over the 600 mark before convention time. Remember, this association represents all retail hardware dealers, whether members or not, but, as in organization lies our commercial salvation, you cannot afford to remain outside the ranks. Inclosed please find application blank, which kindly sign and return."

A TRIUMPH FOR AMERICAN RIFLES.

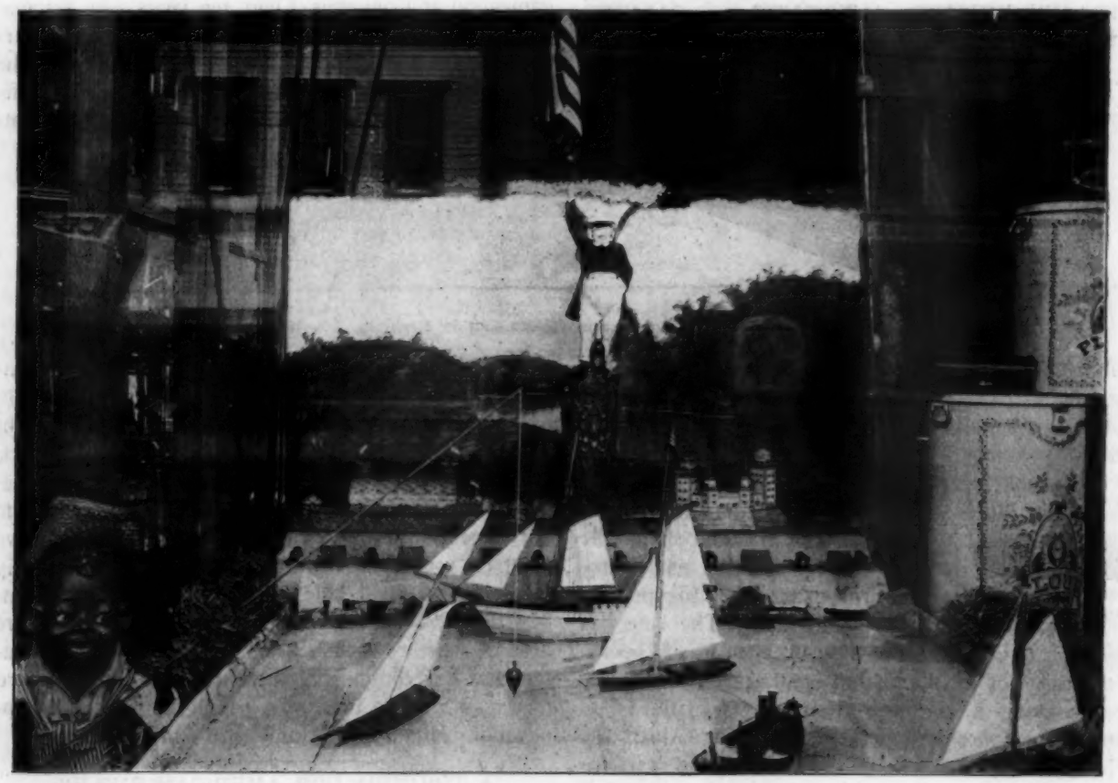
The International Palma Trophy Match for the world's championship recently shot at Bisley, England, between teams of eight, using the national military rifle of their own country, was won by the American team, using American rifles and ammunition, with a score of 1,570 out of a possible 1,800, at 800, 900 and 1,000 yards. Great Britain was second, with a score of 1,555. Seven governments were represented in the contest.

The American team ordered of the J. Stevens Arms & Tool Co. of Chicopee Falls, Mass., extra Stevens-Pope barrels, fitted to their government rifles, and with their rifles thus equipped won the world's record.

The J. Stevens Arms & Tool Co. have always claimed to manufacture the most accurate shooting rifle in the world, and this goes far to prove their claim. Rifle practice is growing in popularity, and with the government indorsement and the urgent request of President Roosevelt that the youth of America learn to be proficient in rifle shooting, some remarkable scores in this line may be confidently expected in the near future.

SHOW WINDOW.

The accompanying cut shows a show window arranged by C. Magnussen, Lyons, Ia., for the recent street carnival at that place. It showed the American-German yacht race in the harbor of Kiel; the small crafts were sailing around a large square tin pan driven by a system of concealed wires, operated by a water motor. The background shows the Fort Fredricksort with castle Prince Henry and also the statue of a German farmer carrying the American flag, while the other side of the window was filled with a fine selection of fishing tackle. The exhibit was very amusing and brought many compliments from the citizens of that place.



A Show Window.

A NEW HARDWARE INSURANCE ASSOCIATION.

L. Findeisen, O. P. Schlafer and C. A. Peck are sending out the following circular to the membership anent the question of a state insurance association in Wisconsin:

"For some time past the hardware trade have been considering the advisability of organizing an insurance company for their exclusive benefit.

"It is well known that the rates paid by the retail hardware dealers of the state are far in excess of their proportion of losses.

"The committee appointed at the last annual meeting of the state association have secured the necessary legislation to make the formation of such a company legal, and believe by the record of similar companies in other states that there may be a saving of 25 to 40 per cent.

"Before we can issue any policies it will be necessary to secure $100,000 in applications and $5,000 in cash, and the limit of any one risk is $3,000.

"It is proposed to have each applicant for insurance state in his application the amount of insurance he is willing to take and give the secretary an acceptance for the amount of premium due on the same at the present board rates, for which acceptance the secretary can give his receipt. These acceptances can be treated as cash, and thus the company can be launched and made ready to do business. It is not probable that we can be in shape to issue any policies before fall, so that you will necessarily have to date the time when your insurance is to begin later than that. Minnesota requires that an equal amount shall be carried in board companies; in other words, your hardware policy cannot be larger than is placed in old line companies.

"It is now up to the membership of the association to say whether they want a company of their own, and the promptness with which these letters are answered will alone settle the question.

"Don't throw this letter in the waste basket, but attend to the matter at once, and on the inclosed card make reply and stamp and mail to C. A. Peck, Berlin, Wis., without delay.

"A copy of this card and letter are being sent to 700 hardware dealers in this state, and upon the replies received will depend the formation of the company.

"It has worked well in other states (Minnesota saving from 25 to 40 per cent to her patrons), and there is no reason why it should not work as well in Wisconsin, and it seems to the committee that the time has come for us to save money on our insurance."

PETERS' LOADED SHELLS.

Peters' loaded shells, manufactured by the Peters Cartridge Co., Cincinnati, O., continue to meet the favor of sportsmen everywhere. At Waynesboro, July 4, E. H. Storr won high average, and at Charlottesville, Va., July 15, Mr. Storr repeated the performance, winning over all comers. At Ligonier, Pa., Neaf Apgar was high for the first day's averrage on July 7, scoring 171 of 175 targets shot at and making a run of 117 straight. At Americus, Ga., July 14, J. M. Napier won the amateur trophy of 48 out of 50, and missed but 6 targets on the open program. At Fitzgerald, Ga., J. H. Polhill scored 97 per cent in special sweepstakes and at Brownwood, Tex., Wallace Miller won the three days' average, scoring 525 of 570 targets shot at.

A HARDWARE STORE BURGLARIZED.

The C. F. Bodinson Hardware Co., a Kearney, Neb., retail hardware concern, are to be congratulated on the prompt action taken in case of a recent burglary. On July 25 their store was visited by midnight marauders and on July 27 they had a card out reading as follows:

"The undersigned will give twenty-five dollars reward for the apprehension of the person or persons who stole a quantity of knives and razors from our store the night of July 25. And an additional twenty-five dollars reward for the recovery of the goods or major portion of the same.

"The goods stolen consists of pocket knives branded 'E. C. Simmons Hardware Co.' and razors branded partly 'C. F. Bodinson Hardware Co.' and 'E. C. Simmons Hardware Co.'

"Telegraph any information to Logan Sammons, Sheriff."

RAN-TAN-KA-RUS RED DEVIL RAZORS.

The Smith & Hemenway Co., 296 Broadway, New York, send us a little green leaflet telling about the Ran-tan-ka-rus Red Devil razor. To produce the blades of Ran-tan-ka-rus razors sixty small wires are hammered together into a bar of steel, which gives it the Damascus strength and elasticity. They are Hamburg ground and are warranted to give absolute satisfaction, it is claimed.

The peculiarity of this firm's Ran-tan-ka-rus razors Nos. 687 and 600 is the form of the blade, the construction being such that a man cannot use them without obtaining a drawing cut, thereby insuring ease in shaving. The edge and back are both curved and parallel. The curved back insures a more even stropping than is possible with a straight-back and curved cutting edge, it is claimed.

One of these circulars will be forwarded the trade on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

LIBEL SUIT FOR $20,000.

A libel suit for $20,000 damages has been filed in the Cook county circuit court by Hall's Safe & Lock Company, Chicago, against the Herring, Hall, Marvin Safe Company, Chicago. The suit is based upon statements alleged to have been made by the defendant in letters sent out by it regarding the plaintiff. The latter asserts that the defendant concern stated over its signature that Hall's Safe & Lock Company is not a reliable concern and offered the advice that business dealings with it should be carefully watched. These statements are said by the plaintiff to have been made without good reason or foundation and with the intent to injure their reputation and business.

HARDWARE SPECIALTIES.

The Cronk & Carrier Mfg. Co., Elmira, N. Y., are leading manufacturers of hardware specialties, their line being a most complete and popular one. Cronk's steel-covered endless run barn door hanger is of the solid covered loose axle construction.

Cronk's "Automobile" loose axle barn door hanger is made with a solid cover. It has an adjustable stop, which positively prevents the door from jumping the track.

Cronk's Stay on hinge hanger is made with steel roller bearings and runs any width door. It is steel covered and storm-proof and has hinge or flexible joint.

The Cronk automatic sliding door latch can be thrown back, leaving the edge of the door clear. It has an inside latch and pull.

Cronk's Champion braced wrought steel garden rake has thin and broad teeth, making them doubly strong the way the strain comes. They are made of polished wrought steel in pairs solidly riveted to the channel steel head. The end teeth are crimped to prevent their bending sideways.

Cronk's garden mattock is light, weighing but 1½ pounds, and made with malleable eye, hoe steel blades and XXX handles.

Cronk's wire cutter and bender No. 1 combines both flat and round nose in one, the concave and convex circles between the handles being used for bending wire in any desired shape.

Cronk's wood handle pruning shears has heavy malleable socket securely fastened to handles and riveted to blade to prevent coming loose.

The Queen City chopping knife is six-bladed. The blades are manufactured from carefully tempered cast steel and will hold an edge. The knife may be taken apart without the aid of a wrench or special tool. The blades do not meet at one common point, but are set apart.

These are only a few specialties taken at random from the interesting 36-page catalogue of this concern. One of these volumes will be forwarded the trade on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

MICHIGAN RETAIL HARDWARE DEALERS WILL MEET.

The Michigan Retail Hardware Dealers' Association will hold their annual convention in Detroit on Aug. 12th and 13th. An unusually interesting program has been prepared as follows:

WEDNESDAY MORNING SESSION.

Meeting called to order by President T. Frank Ireland.

Roll call by Secretary.

Appointment of committees on Credentials, Constitution and By-Laws, Resolutions, Nominations.

Reading of minutes of last regular meeting.

Reception of communications.

Payment of dues and receiving of new members.

WEDNESDAY AFTERNOON SESSION.

Address of welcome (Mayor Wm. C. Maybury).
Report of Committee on Credentials.
Annual address of the President.
Annual report of the Treasurer.
Annual report of the Secretary.
Paper, "Competition and Margins" (Fred J. Cook, Fowlerville).
Address, W. P. Bogardus, Pres. National Retail Hardware Dealers' Association.

THURSDAY MORNING SESSION.

Paper, "The People from Whom We Buy" (Wm. W. Wixson, Minden City).
Paper, "Looking Both Ways" (Henry C. Weber, Detroit).
Reminiscences by delegates.
Address, "Local Organization" (C. M. Alden, Grand Rapids).

THURSDAY AFTERNOON SESSION.

Reports of Committees on Resolutions and Constitution and By-Laws.
Consideration of committee reports.
Address ——
Unfinished business.
New business.
Miscellaneous business.
Election of officers.
Adjournment.

SHALL MANUFACTURERS SELL DIRECT OR THROUGH AGENTS OR BROKERS TO A DEALER WHOSE NAME HAS BEEN DROPPED FROM THE LIST OF SYNDICATE BUYERS AS NOT BEING A LEGITIMATE JOBBER?

BY WALLACE L. POND.

Prepared by Wallace L. Pond of the Nicholson File Co., Providence, R. I., at the request of the Southern Hardware Jobbers' Association, but not read at their recent meeting.

LIST OF SYNDICATE BUYERS.

The question put forward for our consideration at this time leads us naturally to ask:

First—Who is the authority for the list of syndicate buyers? Does this association or some similar body of men make up such lists, or are they made up by some self-constituted authority, whose selections may or may not be safeguarded by proper checks, or based on facts and figures as to the evidence entitling each of them to membership in the syndicate?

One is led to believe that it must be some such authority as last named, or there would be no need of such wholesale weeding out, as the question under discussion would suggest. For we are loath to believe that any occasional dropping of a member from such a syndicate could incite a question of this kind for the consideration of this body at a time when so many questions of large scope and importance might be profitably discussed.

WHO IS A LEGITIMATE JOBBER?

The question also presents itself at once, *Who is a legitimate jobber?* What are the qualifications of one of that class, and by whom are these qualifications framed? Is it a generally recognized authority, or not? The manufacturer can not, of course, be brought to task in a matter touching his dealings with one who in his judgment is a *jobber* and *as such* entitled to direct dealings on that basis, until he has been convinced, by some one having power and proof, that he has erred in his judgment, and without warrant placed this customer on the same basis as bona-fide *jobbers* of unquestioned standing. And, too, before complaint can be made to the manufacturer, it would seem that some sort of official notice should be sent him stating that Mr. So and So has been found ineligible to the title previously allowed him, and has been dropped from the syndicate lists. The reasons should of course accompany the document.

REJECTED MEMBER MUST SHOW REASONS.

But again, let us consider how just is any cause for complaint which you may have against the manufacturer.

In the first place, to have at the start been admitted into the ranks of other "legitimate jobbers" or a syndicate made up of such, your rejected member must have shown reasons, good and sufficient, why he should be so admitted. He must, in the nature of the case, have been able to show a volume of business large enough and carried on in such a manner as to place him in the class to which he was received. And you must concede that he *is* a jobber, his business is at least largely wholesale, and he is considered by his customers as a wholesale distributor of merchandise. He comes into direct competition with the most decided jobber and is in position to command relatively as large a business as they. Why then should not the manufacturer treat with him direct, if these be the facts of the case?

EX-MEMBER FAMILIAR WITH PRICES.

And then, too, one who has once been a member of a syndicate of this sort and thereby has derived the benefits, if any, accruing from such membership, is of course familiar with prices given to the syndicate members, and naturally he will never consent to purchasing his goods from another jobber at higher prices than he is confident would have been received by him as a member of the syndicate to which he once belonged.

You can readily appreciate how strongly the discarded member would object to being forced thus to obtain his goods from another jobber.

FOR WHAT IS A SYNDICATE FORMED?

You certainly would not restrict the manufacturer and have him confine his dealings to only syndicate jobbers, or to those jobbers whose volume of business is greater than that of *any* syndicate member. And this leads to the question. For what is the syndicate formed? Is it not to obtain by this means, for its members collectively, a better price on any and all classes of goods than any single member of the syndicate would be entitled to for *his* legitimate business? Or in fact the object is, as we understand it, to place your syndicate members, if possible, on a level with the largest jobbers in the country, whose volume of trade they cannot hope to attain. Granting this to be so, we are confronted with numerous complaints, the most important being from the large jobbers, who say that the manufacturer has no right to make a collection of houses buying as a body, or through one head, prices lower than is due to any single member for the trade controlled by him, and you, will, we think, agree with us that this complaint is more likely to be considered right and just than any complaint which might be made against a manufacturer for selling to a possible member of such a syndicate for the reason, as the question puts it, that he is *not* a "legitimate jobber."

THE SAFEST AND BEST COURSE.

After all, gentlemen, is it not the safest and best for the manufacturer to pursue an independent course touching such dealings, coming as near to an equitable or fair treatment of all concerned as he possibly can, but reserving to himself the right to be his own judge as to whom he will sell?

The manufacturer will be governed in all such matters by his own sense of fairness and right dealings, and while the desire to sell is oftentimes hard to resist, all of us must be judged by the general character of our dealings and not by any occasional mistake which the best of us sometimes will make.

The self-interest of the manufacturer will prevent him from straying too far from the path of equity and fairness.

The Clayton & Lambert Mfg. Co., Detroit, Mich., send us a circular describing their coil fire pot No. 12, in which the tank is drawn out of heavy steel, which is then heavily coated with tin inside and out. All openings are fitted with bosses screwed into lock nuts, which securely hold them in place. The bottom of the tank is protected by a heavy galvanized iron ring, which adds to its strength.

Heating and Ventilating

E. F. Glore succeeds Frank A. Brastow as manager of the Philadelphia office of the American Radiator Co.

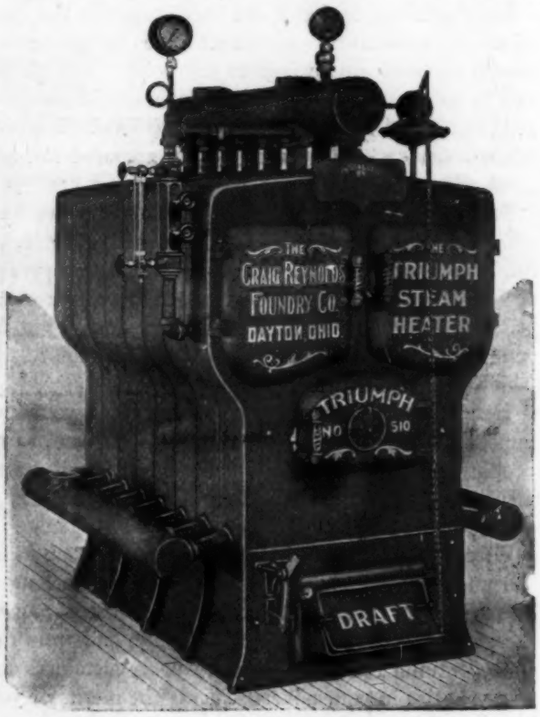
L. L. Hight is president and C. A. Hight is treasurer of the Automatic Heating Co., Portland, Me., capitalized at $3,000,000.

The Fox Furnace Co. have moved their offices from Cleveland, O., to Elyria, O. This firm have been expanding at a goodly rate and this departure of theirs gives them more room for handling their growing business.

TRIUMPH STEAM SECTIONAL BOILER 500 SERIES.

The Craig-Reynolds Foundry Co., Dayton, O., for whom John Kontny, 153-159 So. Jefferson St., Chicago, is western agent, are offering the trade the Triumph steam sectional boiler, 500 series, shown herewith.

The back and bridge-wall sections are both heavily



Triumph Steam Sectional Boiler 500 Series.

corrugated, and form a diving flue for the return of the products of combustion and gases, as they pass out through smoke-flue at bottom of the rear section. Two small openings are placed on either side of the smoke-flue connection at the rear of the boiler, for the purpose of introducing a coil of pipe over the fire. This coil of pipe, like the waterback of a kitchen range, is designed to heat water for domestic purposes.

The gases and particles of combustion pass from the rear to the front of the boiler through the lower tier of tubes, and then to the rear through the upper tier, thus sufficiently heating every part of each section. The hot gases impinging upon all the surfaces add greatly to the available heating power of the boiler, and the flues are so constructed that every inch is efficient and all the effective heat of the gases is absorbed.

Special attention is called to the rocking gate, which is shaken by a lever, and can be operated with perfect ease. All ashes and clinkers are ground up and removed from the fire, so that the grate need never be dumped to clear out the clinkers. Should the grate, through negligence, burn out, it can be removed through the fire door, and another one substituted without tearing the heater apart.

The peculiar construction of the grate is such that, while plenty of air spaces are provided for burning any kind of fuel, the spaces are closer together, so that pea or soft coal may be burned successfully. The grates of the large size heaters are shaken by two sets of levers, operating only half of the fire at a time. With this advantage the fire may be cleaned out and removed by drawing the fire from the back to the front and shaking all the dead ashes and clinkers off the back set of grates; then pushing all the fire back on the rear grates, the front set may be cleaned off, thus enabling one to thoroughly clean out and renew the fire without having to let the fire go out and wasting good fuel.

The arrangement of the clean-out flue doors, and their ample size, allow the boiler to be reached in every part.

The Triumph boiler is constructed in portable form, but can be set in brick; all joints are screwed and readily accessible; the large amount of positive direct fire-surface and vertical water-circulation are important factors in the construction of any efficient and satisfactory boiler; preventing any foaming in the boiler, and allowing the steam to pass off perfetly dry.

FLORAL CITY HEATERS.

The Monroe Foundry & Furnace Co., Monroe, Mich., send us a catalogue showing their line of Floral City steam and hot water heaters. The general construction of their A, B and C series is as follows:

The heater is composed of a number of sections. A front and rear section and a number of intermediate sections are used to make the size heater desired. A grate bar is used for each section, so the grate and fire surface is always increased at the same time, thus keeping the proportion, so the heater can be easily enlarged at any time if desired.

Each section is separate, independent and interchangeable, so in case of accident a section can easily be exchanged.

The heater is held together by headers, connected to each section by an extra heavy wrought-iron nipple and a lock nut, so all joints are on the outside of the heater, where they are always in sight and can be easily got at any time it is desirable.

Where the sections form the flues, to divide the fire travel, a narrow flange is cast on each section which lap each other, thus making a perfect fire travel and allowing for expansion, thus avoiding the cracking of sections.

Ready access can be had to all parts of the system by opening the front flue doors. The flues can be cleaned while fire is burning, if desired.

All waterways are vertical. All bends are easy—therefore the friction is reduced to a minimum.

In the steam heater the water circulates in each section, and as the intense heat is at the water line it superheats the steam as it rises, thus sending only dry steam through the system. By this construction an absolutely steady water line is held.

Only the very best of cast iron is used in the manufacture of these heaters.

The Floral City A, B and C series hot water heaters are furnished with asbestos cement for packing flues and making a perfect fire travel; asbestos candle-wicking, to pack the lock nuts; direct draft damper; check damper; throttle damper; blow-off cock; poker; shaker, and in larger sizes, a hoe.

The Floral City A, B and C series steam boilers are furnished with all of the above, and in addition, safety valve, steam gauge, damper regulator and water column with glass gauge and cocks.

Floral City heaters, D and E series, are wide (D, 64 in.; E, 48 in.) and low, D being only 72 and E 60 in. high, and are easily installed in low basements. The sections, which are 8 inches thick, are connected by cast-iron slip-nipples (D, 7 in.; E, 5 in. inside diameter at top of heater, and D, 4 in.; E, 3 in., at bottom), and are held together by four wrought-iron rods which pass through holes cored in sections, so they do not come in direct contact with either fire or water.

The fire surface gets the benefit of all the products of combustion, as the fire passes up each side to the top of the heater, thence to the back, where it enters the centrol top flues, passing to the front, where it dives down and passes to the back through the bottom flues, thus allowing the gases to accumulate in the top chamber, where they are consumed instead of passing into the chimney.

All parts are accessible for cleaning. Each section is so constructed that there is a perfect circulation for the water, thus insuring a steady water line.

One of the catalogues will be furnished on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

BRITISH HEATING ENGINEERS MEET.

The annual midsummer meeting of the British Institute of Ventilating & Heating Engineers was held recently.

A paper by Mr. Frederick Dye, M. I. H. and V. E., upon "Testing Heating Plants when the Outdoor Temperature Is Above 32 Degrees Fahrenheit," was read, and Mr. A. B. Simpson read one on "The Screwing of Tube Threads." Mr. F. W. Jennings afterward introduced a paper dealing with "The Plenum System." It was decided to hold the next meeting of the institute on Oct. 6 at the Holborn Restaurant, London.

If the retail dealer is to secure any share of success he must look to it that he is associating his good name with reputable and reliable makes of advertised goods. By this we mean articles that are backed up by manufacturers whose integrity is clearly in evidence, and whose honesty is unquestioned.—Progressive Advertiser.

HOW TO PUSH STOVE SALES.

The problem of increasing stove sales is an important one, for upon the quality of stove which a merchant sells and the extent of his stove sales will depend to a considerable extent the volume of his other business. A stove should last a customer for years, and hence a stove which gives good satisfaction should be a lasting and valuable advertisement for the merchant.

It is of the utmost importance that the stove salesman should be a practical man with a thorough knowledge of his wares, as well as an intelligent understanding of the various atmospheric and climatic conditions with which his stoves must combat. A stove is often condemned because of a defective chimney. The stove man should be able to detect the cause of the trouble and save the reputation of his stove.

It is the general experience of stove men that it is the best policy to specialize upon one or two particular makes. These should be kept prominently and persistently before the public eye. Your store should be well known as the headquarters for these particular lines.

Most retailers find that the local paper is the most effective advertising medium. The advertisement should be brief, catchy and to the point. Tell plainly and in as few words as possible the special merit of your stoves and ranges. Be definite and truthful. Make no extravagant claims, but be prepared to make good all that you claim.

Such advertising is sure to attract prospective buyers. They will not purchase elsewhere before seeing the lines which you have been advertising so persistently. But an advertisement can do little more than bring prospective purchasers to your store. All depends now upon the salesman and upon the impression which your store makes.

Hence every attention should be paid to your customers. People like to see a good assortment. Few people want to buy when there is only a small assortment to be seen. It gives them a poor impression of the stock.

Of course, the bulk of the stove trade is done in the fall and winter months, but do not delay too long in preparing for your stove campaign. Have a good assortment on hand by the end of July, and from that time continue to "talk stove" to your customers and to emphasize in your advertisements the merits of your stoves and ranges.

Whenever a customer shows any interest in your stoves it is good policy to follow up the campaign by sending stove literature to his home. Have the stove trade on your mind and boom it on all possible occasions.

Abandon the idea that stoves can be sold only in certain months. A range may be sold when a heater cannot. Watch for new buildings and make it a point to sell a stove for the new house. When a couple are starting housekeeping remind them that the first thing required is one of your superior ranges or heaters.

The secret of success in the stove trade, as in all others, is well-directed and persistent energy.—Canadian Hardware.

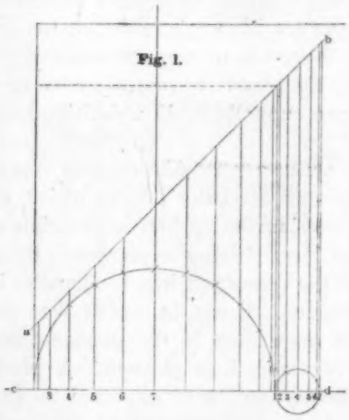
Tinshop.

RIGHT ANGLE MITER PATTERN FOR GUTTER.

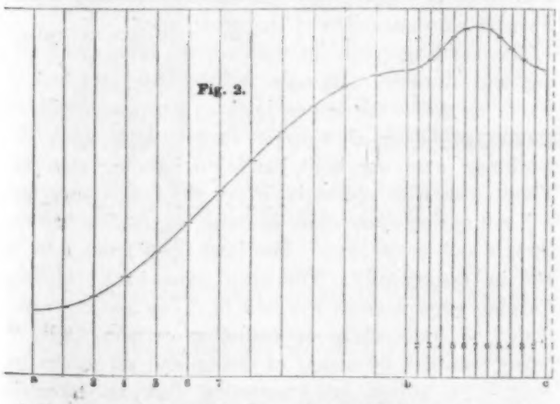
RULE THE FIRST.

Let the semi-circle in Fig. 1 represent the size and style of gutter; the circle, the bead and the line a b the miter required.

Divide the semi-circle into any number of equal parts and one-half the circle of bead divide into any



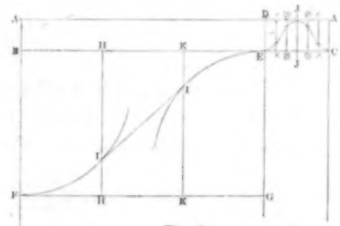
equal number of parts and erect the lines 5, 6, 7, etc., at right angle to the line c d, and reaching to the miter line a b. Let a b, Fig. 2, equal circumference of gutter and a b c circumference of bead. Divide a b into as many number of equal parts as the semi-circle contains and b c into as many again parts as semi-circle of the bead contains, and erect the perpendicular lines 3, 4, 5, etc. Check the lines from a to b to correspond in height to the lines in Fig. 1. Check the lines in b c to correspond with figures in bead, as shown in Fig. 1.

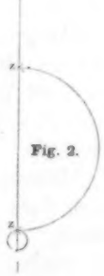


A line traced through the points will form the pattern. Allow edge for groove in beading machine, as shown in dotted line.

RULE THE SECOND.

First cut the sheet the exact width required to form trough and bead. Draw the line B C parallel with A A the diameter of bead; mark the line D E parallel with A C, the circumference of bead. This lays out bead's space. Draw a center line (J J) parallel with D E. On either side of line J J divide the space into three parts and erect the lines X X O O. Mark one-fourth the distance between A C up from the base line (E C) on X X and down from the top line (D A) on O O. Set one leg of the compass on J J and open so as to sweep through the points on lines O O and where J J intersects D A. Set compass on line A C and sweep from C to point on line X, same way on line D E. Make connections with square. This gives miter of bead. Let B F and E G equal the diameter





of trough (Z Z, Fig. 2), space this off in three parts and draw lines H H K K. Take one-fourth the distance between B F and mark on line H H at I, and on line K K at I. Set compass on line B F and open to sweep from F through point I, and on D G a line so as to sweep E I. Connect the backs of these arcs with a straight line. This is also a good elbow pattern.

NOTES AND QUERIES.

LAMP WICKS.

From "Reader," New York City.

Where can we buy lamp wicks?

Ans.—American Tubing & Webbing Co., Providence, R. I.; Ansonia O. & C. Co., Ansonia, Conn.; Fletcher Mfg. Co., Providence, R. I.; Wm. E. Hooper & Sons, Baltimore, Md.; New Jersey Wick Co., Newark, N. J.; Thos. Sheldon, Central Village, Conn.

AUTOMATIC CIGAR VENDING MACHINE.

From "Reader," Chicago.

In response to query of C. C. Casler, Port Huron, Mich., would state that automatic nickel-in-the-slot cigar-vending machines are made by the Automatic Machine & Tool Co., 43 South Canal street, Chicago; Enterprise Vending Machine Co., 152 Lake street, Chicago; National Vending Machine Co., 2518 Wabash avenue, Chicago.

ALUMINUM SASH RIBBON.

From Geo. Hammerbacher, Webster, S. D.

Where can I buy aluminum sash ribbon?

Ans.—Pullman Mfg. Co., Rochester, N. Y.

HAMMOCK HOOKS.

From Henry Bredbeck, Port Clinton, O.

Where can I buy hammock hooks?

Ans.—M. S. Brooks & Co., Chester, Conn.; Keystone Drop Forge Co., Philadelphia; Landers, Frary & Clark, New Britain, Conn.; I. E. Palmer, Middletown, Conn.; Peek, Stow & Wilcox Co., New York;

Russell & Erwin Mfg. Co., New York; Sargent & Co., New York; W. & J. Tiebout, New York.

SHEET ALUMINUM.

From Rotary Steam Cooker Co., Battle Creek, Mich.

Where can we buy sheet aluminum?

Ans.—Pittsburgh Reduction Co., Pittsburgh, Pa.; Scovill Mfg. Co., Waterbury, Conn.; A. T. Wall & Co., Providence, R. I.; Syracuse Smelting Works, 94 Gold street, New York; United States Aluminum Castings Co., Cincinnati; E. A. Williams & Son, Jersey City, N. J.; Janney, Steinmetz & Co., Philadelphia; Cowles Electric Smelting & Aluminum Co., Lockport, N. Y.

CRUCIBLE STEEL CASTINGS.

From Geo. W. Meyers, South Bend, Wash.

Where can I buy crucible steel castings?

Ans.—Herman Boker & Co., New York; Braeburn Steel Co., Braeburn, Pa.; Chrome Steel Works, New York; Denman & Davis, New York; Henry Disston & Sons, Philadelphia; D. G. Gauber & Co., New York; Hawkridge Bros., Boston, Mass.; Hobson, Houghton & Co., New York; Wm. Jessop & Sons, Ltd., New York; B. M. Jones & Co., Boston; Kidd Bros. & Burgher Steel Wire Co., McKees Rocks, Pa.; Patriarche & Bell, New York; S. & C. Wardlow, New York; Westmoreland Steel Co., Pittsburgh; Wheelock, Lovejoy & Co., New York.

CHEMICAL FIRE ENGINES.

From M. G. Combes, Shellsburg, Ia.

Would like addresses of dealers or manufacturers in chemical fire engines.

Ans.—The Automatic Fire Alarm & Extinguisher Co., Ltd., 413 Broadway, New York; the Fire Extinguisher Mfg. Co., 357 Canal St., New York; the Harden Hand Grenade Fire Extinguisher Co., 51 Dearborn St., Chicago; S. F. Hayward & Co., 357 Canal St., New York; Muskegon Chemical Fire Engine Co., Muskegon, Mich.; Racine Fire Engine Co., Ltd., Racine, Wis.

PALACE KING HOT AIR FURNACE.

From Powell Hardware Co., El Dorado, Kan.

Who makes the Palace King hot air furnace?

Ans.—International Heater Co., 48 Dearborn St., Chicago.

ITEMS.

It is said an extensive tin plate plant will be erected in the City of Mexico.

It is said large tin deposits have been discovered at Laugenerwacht, Cape Colony.

It is said a plant for the manufacture of punches, shears, etc., will shortly be started at Connersville, Ind.

A serious clash took place recently between strikers and non-union employes at the Port Vue, Pa., plant of the McKeesport Tin Plate Co.

The Lisk Mfg. Co., Ltd., Canandaigua, N. Y., have increased their capital stock from $800,000 to $1,000,000. They are extensive manufacturers of enameled ware.

H. M. Norton, M. N. Edgar and Joseph J. Moser are the incorporators of the Norton-Edgar Can Co., Covington, Ky., capitalized at $100,000.

A picnic was given July 26 by the Tin Can Workers' Union, Local 244, of Chicago, the majority of whose members are in the Stock Yards district. The picnic was held at Thornton Park.

James M. Mungiven, for a number of years manager of the tinware manufacturing plant of S. A. Ilsley, Brooklyn, N. Y., died of Bright's disease at his residence, 1067 Herkimer street, that city, on July 25.

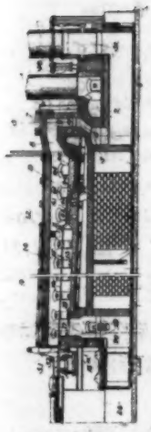
On July 27 the United States circuit court for the district of New York issued three executions against the goods and chattels of the International Enameled Ware Co. and ordered a large offering of German enameled kitchen ware to be sold at auction July 31, on account of the failure, it is said, of the International Enameled Ware Co. to meet increased customs duties imposed by the board of reappraisement of the United States general appraisers, in a decision rendered Dec. 6 last.

Chas. Morrill, 271 Broadway, New York, is manufacturer of the Hercules punch, which is made on Morrill's well-known mechanical principle of utilizing a cam and lever driving a plunger. By this simple method all the power put into the handles is used and friction avoided. It can be readily seen that a punch built upon these lines is the strongest and simplest that can be made, it is claimed. A pressure of 50 pounds on the handles is increased to 1,000 pounds punching force. A pressure of 100 pounds is increased to 2,000 pounds. The punch is very strong in all its parts and the head has been especially designed to withstand any pressure that may be brought to bear upon it. The depth of throat is one inch. From the center of the die to the front of the throat measures one-half inch. All punches and dies are interchangeable and any one can take a die and punch out and insert another of a different size in a minute.

H. Weiss & Co., 20 Cliff street, New York, send us a circular describing the O. K. steel cornice brake. These brakes are made of Bessemer steel.

The working parts are very simple, easy, quick-acting and durable. Balance weights are attached to levers to allow the upper jaws to be raised without danger of falling shut by its own weight, while the workman may use both hands to handle material. They close with eccentric levers on dead center and will not spring open while forming, so treadles become useless and in the way. The jaws open from 1 in. to 1⅜ in. respectively. The open space back of the forming edge is from 1½ to 2 in. They are easily adjusted to form sharp or rounding corners, light or heavy material, by means of wedge and set screws on ends. To adjust jaw-connecting link an eccentric bushing or lower part is used. The brake opens separately on each end, which makes it very convenient for one man working full sheets. (Forming material shorter than full length of brake, only one end is used, closing down far enough to hold farther mark firm, while shifting other end of material in place.) This saves much time and makes accurate work, as it is difficult and slow to catch marks on both ends at the same time, although this brake is constructed so both eccentric levers may be connected, if desired, at a small additional cost. They are light and easy to transport, can be taken apart in three pieces or put together in a few minutes.

NEW PATENTS.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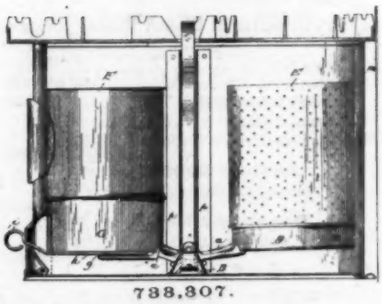
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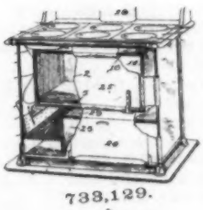
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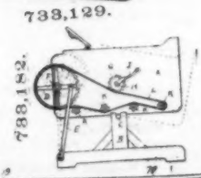
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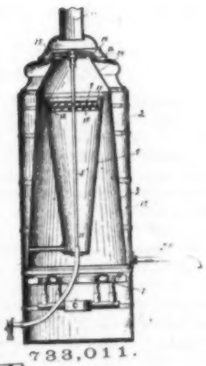
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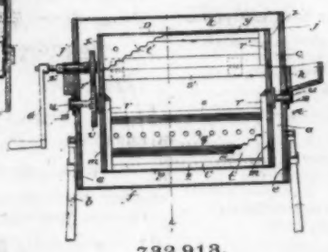
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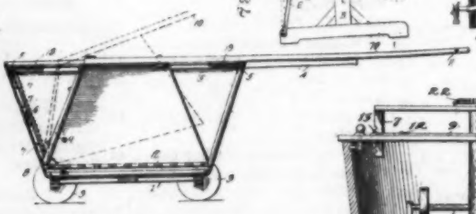
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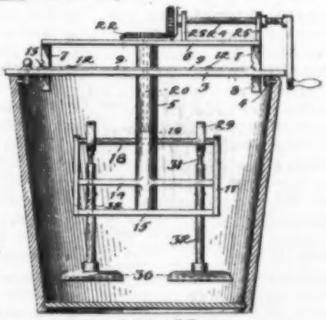
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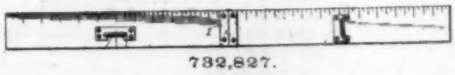
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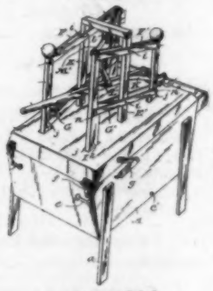
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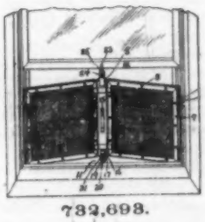
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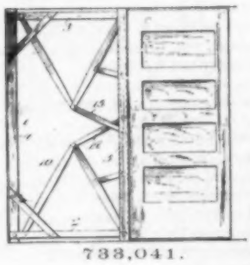
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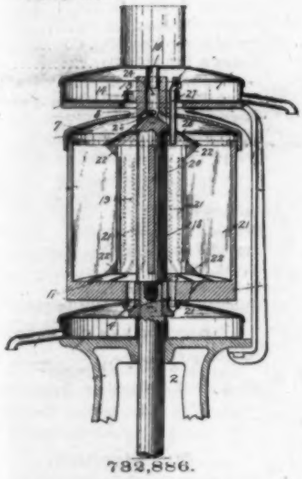
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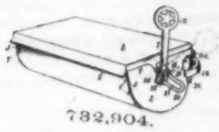
733,126.


732,904.

732,938—Heating furnace. James A. Herrick, Jenkintown, Pa.

733,011—Water heater. Morris I. Cohen, Chicago, Ill.

733,307—Oil stove. William H. Wilder, Gardner, Mass.

733,129—Stove or range. Daniel D. Berry, Springfield, Mo.

733,139—Washing machine. Edmund L. Bullock, Hartford, Conn.

733,182—Washing machine. Charles Garver, Fort Wayne, Ind.

733,201—Washing machine. Felix E. Hoover, Tolu, Ky.

733,211—Washing machine. Alexander A. Johnston, Indianapolis, Ind.

732,827—Combination tool. Silas Chambers, Sterling City, Tex.

732,886—Cream separator. Willard A. Odell and Thomas F. Egan, Minneapolis, Minn.

733,153—Spring hinge. Kimball V. Clark, Buffalo, N. Y.

733,041—Door hanger. George W. Holly, Paloalto, Cal.

732,693—Window screen. John Q. Adams, Jamestown, Ohio.

732,904—Mail box. James W. Snedeker, Adrian, Mich.

733,126—Tool holder. Charles F. Bellows, Brookline, Mass.

SURE CURE.

Flitterly—My girl has gone away for the summer, and I am so lonesome that I don't know what to do.

Flatterly—Put one of those advertisements in the paper, "Second girl wanted."—*Town Topics.*

ADVERTISERS' INDEX.

ALPHABETICAL LIST.

Aitchison, The Robert Perf'd Metal Co. 57
American Cutlery Co. 60
American Furnace Co., The 15
American Radiator Co. 2
American Steel Roofing Co. 55
American Tent & Awning Co 59
American Tinplate Co. 54
Anton, George 62
Atkins, E. C. & Co., The 68
Atlas Bolt & Screw Co 1
Atlas Mfg. Co 68
Auer Register Co 19
Auld & Conger Co., The 55
Avery Stamping Co., The 60
Barnett, G. & H. Co 1
Beckwith, Estate of P. D 22
Benbow-Brammer Mfg. Co 63
Berger Bros. Co 51
Berger Mfg. Co 57
Bergstrom Bros. & Co 15
Bischoff, Fred. F. & Co 46
Black Silk Stove Polish Works 53
Blacklock Foundry Co 64
Blanke & Hauk Supply Co 61
Bluffton Cream Separator Co 61
Boss Washing Machine Co 63
Boynton Furnace Co 11
Brammer, H. F. Mfg. Co 63
Brand Stove Co 12
Brauer, A. G. 52
Bridgeport Chain Co 60
Bridgeport Crucible Co 52
Bridgeport Gun & Implement Co. 2
Briscoe Mfg. Co 50
Buckeye Paint & Varnish Co 54
Burton, The W. J. Co 53
Canton Steel Roofing Co 56
Champion Steel Range Co 8
Chicago Furnace Supply Co 12
Clark, Geo. M. & Co 5
Clark Novelty Co 51
Clark, Quien & Morse 55
Clayton & Lambert Mfg. Co 54
Colebrook, W. H. Sons & Co 12
Cole Mfg. Co 18
Columbus Bolt Works 1
Connors, Wm. Paint Mfg. Co 1
Cooney & Geiger 68
Cope, Geo. W. Pattern Works 52
Cortright Metal Roofing Co 2
Cosby, Chas. H 9
Davison Mfg. Co 63
Denning Fence Works 50
Detroit Heating & Lighting Co 5
Disston, Henry & Sons 65
Dixon, Jos. Crucible Co. 50
Dust, Wm. T. Co 52
Ehle, F. G. & Co 58
Eller, J. H. & Co 56
Enterprise Mfg. Co. of Pa 67
Farwell, Ozmun, Kirk & Co. 59
Ferrosteel Co 20
Folsom, C. G 64
Forest City Paint & Varnish Co 64
Foy, The E. A. Co 65
Friedley & Voshardt 56
Front Rank Steel Fur. Co 12
Fulper Pottery Co 62
Galesburg Cornice Works 57
Gagan, J. M. & Co 59
Garry Iron & Steel Co 54
Geneva Tool Co 1
Globe Ventilator Co 68
Gobeille Pattern Works 52
Ham, C. T. Mfg. Co 59
Hart & Cooley Co., The 19
Hart & Crouse Co 9
Helios-Upton Co 53
Henry & Scheible Co 17
Hoehn, Fred 58
Hoffman, Geo. W 53
Home Pride Range Co 66
Hopkins & Allen Arms Co 64
Horigan Supply Co 61
Howes, S. M. Co., The 52
Huffman, Theo. P. & Co 68
Hughes, C. W 50
Hurwood Mfg. Co 65
Illinois Roofing & Supply Co 68
Independent Register Co 17
Isele, W. C. & Co 50
Jones, J. H 2
Kelly, T. P. & Co 52
Kewanee Boiler Co 2
Kimball Bros. Co 59
Kohler, F. E. & Co 60
La Crosse Steel Roofing & Corrugating Co 55
Lawrence Mfg. Co 61
Lee-Glass-Andreesen Hdw. Co 67
Lennox Mfg. Co 12
Leonard Mfg. Co 59
Lufkin Rule Co 65
March-Brownback Stove Co 14
Mayer & Co 2
McClure & Co 68
Mersfelder Pattern Works 52
Meyers, The Fred J. Mfg. Co 58
Meyer Bro. & Co., F 17
Milwaukee Corrugating Co 55
Milwaukee Pattern Works 52
Monroe Foundry & Furnace Co 14
Morrill, Chas 58
Mueller, L. J. Furnace Co 13-91
Nat. Enameling & Stamping Co 58
Nicholson File Co 1
Nineteen Hundred Washer Co 62
Nineteen Hundred and Three Washer Co 63
Norris & Loring Hdw. Co 50
North Bros. Mfg. Co 60
Osborn, The J. M. & L. A. Co 56
Osgood Scale Co 1
Palmer, C. F 9
Peck, Hubert S 45
Peerless Steel Range Co 7
Pelouze Scale Co 60
Perkins, J. L. & Co 1
Peters Cartridge Co 2
Pike Mfg. Co 61
Pittsburgh Stove & Range 11
Plume & Atwood Mfg. Co 61
Powers Bros 1
Pullman Mfg. Co 68
Quincy Stove Mfg. Co 4
Richardson & Boynton 15
Ringen Stove Co 6
Robinson Fur. Co 14
Rochester Radiator Co 18
Roesch Mfg. Co 64
Roney Returner Co 64
Royal Stove and Range Co 8
Sayre Stamping Co 50-52
Schneider & Trenkamp 16
Schwab, R. J., & Sons Co 20
Seeger, Chas 54
Seither-Cherry Co 61
Sitterly Novelty Co 47
Smead, Isaac D., & Co 10
Smith, Chas. Co 17
Smith & Hemenway Co 60
Sperry, D. R. & Co 2
Stanley Rule & Level Co 65
Stanton Heater Co 13
Sterling Foundry Co 13
Stevens Arms & Tool Co 68
Stevens, F. B 53
Stimpson, Edwin B. & Son 57
St. Louis Electrotyping & Foundry Co 50
Stowell Mfg. & Fdy. Co 19
Stuber & Kuck 53
Swaine, Fred. J. Co 54
Symonds Mfg. Co 17
Tower Mfg. Co 60
Travilla, M 9
Tubular Heating & Ventilating Co 9
Van, John Range Co 7
Voss Bros. Mfg. Co 62
Walworth Run Foundry Co 20
Weber Gas and Gasoline Engine Co 50
Weiss, H. & Co 64
Weller Pattern Co 52
Welling-Bowers Mfg. Co 68
White, F. W 53
White Stove Co., Thos 3
White Lily Washer Co 62
Williams Stove Lining Co 51
Willard, Wm. G 8
Willson & Co., H. B 61
Wilmot Castle Co 18
Winchester Repeating Arms Co 51
Young Mfg. Co., The 55

CLASSIFIED LIST.

Agricultural Tools.

Geneva Tool Co 1

Architectural Sheet Metal Work.

Berger Mfg. Co 57
Canton Steel Roofing Co 56
Friedley & Voshardt 56
Folsom, C. G 60
Galesburg Cornice Works 57

Asphalt Roofing.

Perkins, J. L. & Co 1

Baker and Heater.

Cosby, Chas. H 9

Bolts.

Columbs Bolt Works 1

Cabinets Electrotypes

Leonard Mfg. Co 59

Caldrons.

Sperry, R. D. & Co 2

Carpenters' Tools.

Hurwood Mfg. Co 65
Smith & Hemenway 61
Stanley Rule & Level Co 65

Ceilings—Steel.

Berger Mfg. Co 57
Canton Steel Roofing Co 56
Eller, J. H. & Co 56
Friedley & Voshardt 56
Illinois Roofing & Supply Co 68
La Crosse Steel Roofing & Corrugating Co 55
Milwaukee Corrugating Co 55

Chains.

Bridgeport Chain Co 60

amps.

Hughes, C. W 50

Conductor Pipe.

Clark, Quien & Morse 55
Garry Iron & Steel Co 54
Illinois Roofing & Supply Co 64
La Crosse Steel Roofing & Corrugating Co 55

Corrugated Iron.

Garry Iron & Steel Co 54

Cream Separators.

Blanke & Hauk Supply Co 61
Bluffton Cream Separator Co 61
Lawrence Mfg. Co 61
Seither-Cherry Co 61

Cutlery.

American Cutlery Co 60
Farwell, Ozmun, Kirk & Co 59
Smith & Hemenway Co 60

Cut Offs.

Cooney & Geiger 68
Young Mfg. Co 55

Dampers.

Sayre Stamping Co 42
Howes, S. M. Co 52

Door Hangers.

Bischoff, Fred. F. & Co 68

Drills.

North Bros. Mfg. Co 61

Elevators.

Kimball Bros 59

Excelsior.

Huffman, Theo. P. & Co 58

Enamel Ware.

Nat'l Enameling & Stamping Co 58

Faucets.

Clark Novelty Co 51

Fencing

Denning Fence Works 50

Files.

Barnett, G. & H. Co 1
Disston, Henry & Sons 65
Mayer & Co 2
Nicholson File Co 1

Filters.

Fulper Pottery Co 62
Seeger, Chas 54

Fire Arms.

Bridgeport Gun & Implement Co. 2
Hopkins & Allen Arms Co 64
Peters Cartridge Co 2
Stevens, J. Arms & Tool Co 68
Winchester Repeating Arms Co 51

Fire Pots.

Clayton & Lambert Mfg. Co 54

Fixtures—Office.

Leonard Mfg. Co 51

Flour Sifters.

Meyers, The Fred J., Mfg. Co 58

Flue Stoppers.

Stuber & Kuck 53
Welling-Bowers Mfg. Co 64

Foundry Supplies.

Kelly, T. P. & Co 52
Stevens, F. B 49

Fruit Press.

Enterprise Mfg. Co. of Pa 63

Furnace Cement.

Colebrook, W. H. Sons & Co 12
Connors, Wm. Paint Mfg. Co 1

Furnace Supplies.

Chicago Furnace Supply Co 12
Colebrook. W. H. Sons & Co 12

Furnaces—Tinners.

Clayton & Lambert Mfg. Co 50

Furnaces—Warm Air.

American Furnace Co., The 15
Bergstrom Bros. & Co 15
Boynton Furnace Co 11
Brand Stove Co 12
Front Rank Steel Fur. Co 12
Henry & Scheible Co 17
Lennox Mfg. Co 12
March-Brownback Stove Co 14
Meyer, F. & Bro. Co 17
Monroe Foundry & Furnace Co 14
Mueller, L. J. Furnace Co 13
Palmer, C. F 9
Richardson & Boynton 15
Robinson Fur. Co 14
Schwab, R. J. & Sons Co 20
Smead, Isaac D. & Co 10
Smith, Chas. Co 17
Stanton Heater Co 13
Tubular Heating & Ventilating Co 9

Galvanized Ware.

Briscoe Mfg. Co 50

Gas and Gasoline Engines.

Weber Gas and Gasoline Engine Co 50

Gun Cleaners.

Bridgeport Gun & Implement Co. 2

Hardware Specialties.

Atkins, E. C. & Co 68
Atlas Mfg. Co 68
Atlas Bolt & Screw Co 1
Avery Stamping Co., The 61
Berger Bros. Co 51
Blacklock Foundry Co 64
Bridgeport Chain Co 55
Briscoe Mfg. Co 50
Clark Novelty Co 51
Davison Mfg. Co 63
Disston, Henry & Son 65
Ehle, G. F. & Co 48
Enterprise Mfg. Co. of Pa 67
Farwell, Ozmun, Kirk & Co 59
Ham, C. T. Mfg Co 59
Hoehn, Fred 58
Hopkins & Allen Arms Co 64
Hurwood Mfg. Co 65
Kohler, F. E & Co 61
Lawrence Mfg. Co 60
Lee-Glass-Andreesen Hdw. Co 67
Lufkin Rule Co 65
Mayer & Co 2
Meyers, The Fred J., Mfg. Co 58
Morrill, Chas 58
Nat. Enameling & Stamping Co 58

Hardware Specialties—Con.

Norris & Loring Hdw. Co. 50
North Bros. Mfg. Co 60
Plume & Atwood Mfg. Co 61
Roesch Mfg. Co 60
Roney Returner Co 64
Sitterly Novelty Co 61
Smith & Hemenway Co 60
Sperry, D. R. Co 2
Stanley Rule & Level Co 65
Stuber & Kuck 53
Tower Mfg. Co 60
Weiss, H. & Co 64

Hay Carriers.

Roney Returner Co 64

Heaters—Hot Water and Steam.

American Radiator Co 2
Boynton Furnace Co 11
Detroit Heating and Lighting Co.. 5
Hart & Crouse Co 9
Kewanee Boiler Co 2
Monroe Foundry & Furnace Co ... 14
Smith, Chas. Co 13
Stanton Heater Co 13

Heaters—Oil.

Schneider & Trenkamp 16

House Furnishing Goods

Briscoe Mfg. Co 60
Enterprise Mfg. Co. of Pa 67
Meyers, The Fred J., Mfg. Co 58
Nat. Enameling & Stamping Co.. 58
Sperry, D. R. & Co 2
Stuber & Kuck 53

Iron Handles—Sad.

Hoehn, Fred 58

Joint Wiper.

White, F. W 57

Knives.

Smith & Hemenway Co 61

Lamps—Miners.

Anton, George 62

Lanterns.

Ham, C. T. Mfg. Co 59

Lawn Sprinklers.

Smith & Hemenway Co 61

Lightning Rods.

Foy, The E. A. Co 65

Mail Boxes.

Canton Steel Roofing Co 57
Folsom, C. G 61
Roesch Mfg. Co 64

Metals—Perforated.

Aitchison, The Robert Perf'd Metal Co 57
Stimpson, Edwin B. & Son. 57

Miniature Tools.

Davison Mfg Co 63

Oil Stones.

Pike Mfg. Co 61

Oven Thermometers.

Helios-Upton Co. 53

Paints.

Buckeye Paint & Varnish Co 54
Connors, Wm. Paint Mfg. Co 1
Dixon, Jos. Crucible Co 50
Forest City Paint Co 54

Patents.

Peck, Hubert S 45
Willson & Co., H. B 61

Pattern Letters.

St. Louis Electrotyping & Fdy. Co. 50

Pencils.

Dixon, Jos. Crucible Co 50

Punch—Hand.

Morrill, Chas 58
Weiss, H. & Co 64

Radiators—Hot Water and Steam.

American Radiator Co 2

Radiators—Stove Pipe.

Burton, The W. J. Co 53
Cole Mfg. Co 8
Rochester Radiator Co 18
Wilmot Castle Co 18

Registers.

Auer Register Co 19
Ferrosteel Co 20
Hart & Cooley Co., The 19
Henry & Scheible Co 1
Independent Register Co 17
Mueller, L. J. Furnace Co 19
Schwab, R. J. & Sons Co 20
Stowell Mfg. & Fdy. Co 19
Symonds Mfg. Co 17
Walworth Run Foundry Co 20

Roofing.

American Steel Roofing Co 55
Auld & Conger 55
Berger Mfg. Co 57
Canton Steel Roofing Co 56
Clark, Quien & Morse 55
Cortright Metal Roofing Co 2
Eller, J. H. & Co 56
Garry Iron & Steel Co 54
LaClosse Steel Roofing & Corrugating Co 55
Milwaukee Corrugating Co 55
Osborn, The J. M. & L. A. Co 56
Perkins, J. L. & Co 1

Roofing Slate.

Auld & Conger 55

Sash Balance.

Pullman Mfg. Co 68

Saws.

Atkins, E. C. & Co 68
Disston, Henry & Sons 68

Saw Sets.

Disston, Henry & Sons 65
Smith & Hemenway Co 57
Morrill, Chas 58

Scales.

American Cutlery Co 60
Osgood Scale Co 1
Pelouze Scale Co 60

Screw Drivers.

Hurwood Mfg. Co 65
North Bros. Mfg. Co 61

Shovels.

Avery Stamping Co., The 60
Kohler, F. E. & Co 60

Skylights.

Galesburg Cornice Works 57
Jones, J. H. & Son 2

Skylight Gearing.

Weiss, H. & Co 64

Slaters' Tools.

W. C. Isele & Sons 50

Sporting Goods.

Stevens, J. Arms & Tool Co 68

Steel—Sheet.

Sa[illegible]tamping Co 50

Stove Bolts.

Atlas Bolt & Screw Co 1
Columbus Bolt Works 1

Stove Lining.

Connors, Wm. Paint Mfg. Co 1
Bridgeport Crucible Co 52
Williams Stove Lining Co 51

Stove Patterns.

Cope, Geo. W. Pattern Works 52
Gobeille Pattern Works 52
Mersfelder Pattern Works 54
Milwaukee Pattern Works 52
Weller Pattern Co 52

Stove Polish.

Black Silk Stove Polish Works .. 53
Dixon, Jos. Crucible Co 50
Hoffman, Geo. W 53
Stevens, F. B 53

Stove Putty.

Connors, Wm. Paint Mfg. Co 1

Stove Repairs.

Brauer, A. G 62
Dust, Wm. T. Co 52

Stoves and Ranges.

Beckwith, Estate of P. D 22
Brand Stove Co 12
Champion Steel Range Co 8
Clark, Geo. M. & Co 5
Cole Mfg. Co 18
Cosby, Chas. H 9
Home Pride Range Co 63
March-Brownback Stove Co 14
Peerless Steel Range Co 7
Pittsburgh Stove & Range Co 11
Quincy Stove Mfg. Co 4
Ringen Stove Co 6
Royal Stove & Range Co 8
Schneider & Trenkamp 16
Sterling Foundry Co 13
Travilla, M 9
Van, John Range Co 7
White Stove Co., Thos 3
Willard, Wm. G 8

Stove Trimmings.

Atlas Bolt & Screw Co .....
Columbus Bolt Wks 1
Helios-Upton Co 53
Howes, S. M. Co., The 52
Sayre Stamping Co 52

Tacks.

Tower Mfg. Co 60

Tape Measures.

Lufkin Rule Co 65

Tents and Awnings.

American Tent & Awning Co 59

Tinners' Tools and Supplies.

Berger Bros. Co 57
Clayton & Lambert Mfg. Co 54
Lufkin Rule Co 65
Perkins, J. L. & Co 1
Sayre Stamping Co 52
Smith & Hemenway Co 57
Stanley Rule & Level Co 65
Swaine, Fred. J. Co 54
Weiss H. & Co 64
Young Mfg. Co., The 55

Tinplate.

American Tinplate Co 54
Ehle, F. G. & Co 58
Garry Iron & Steel Co 54
Illinois Roofing & Supply Co 68
McClure & Co 68
Osborn, The J. M. & L. A. Co 56

Tinware.

Cooney & Geiger 64
Nat. Enameling & Stamping Co ... 58
Stuber & Kuck 53

Torches.

Clayton & Lambert Mfg. Co 54

Tools.

Hurwood Mfg. Co 65

Tops—Chimney.

Powers Bros 1

Ventilators.

Globe Ventilator Co 68
Powers Bros 1

Washers.

Columbus Bolt Works 1

Washing Machines.

Benbow-Brammer Mfg. Co 63
Boss Washing Machine Co 63
Brammer, H. F. Mfg. Co 63
Gagan, J. M., & Co 59
Nineteen Hundred Washer Co 62
Nineteen Hundred and Three Washer Co 63
Voss Bros. Mfg. Co 62
White Lily Washer Co 62

Water Supplies.

Horrigan Supply Co 61

Wrenches.

Hurwood Mfg. Co 65

THE PIG-IRON MAKE OF 1903.

So far as present appearances go, they point to the probability of the output of pig iron in 1903 greatly exceeding that of any former year. To begin with, the output in the United States must be on a scale of unprecedented magnitude, and it is probable that the output for the whole year will not be much, if any, short of 20,000,000 tons. Then the output of Germany is also likely to be quite phenomenal, seeing that for the first five months of the year the output was 724,000 tons greater than that of the corresponding output of 1902. If this rate of increase be continued during the rest of the year, reasons the London Iron and Coal Trades Review, the total output of Germany for 1903 should be about 1,725,000 tons greater than that of the previous year. This increase, should it be realized, will make 1903 a record year, not only for German output, but for the advance of that output on all previous experience. So far as Great Britain is concerned, there is reason to believe that its present rate of production is quite equal to that of last year, and a very slight spurt would make a material difference for the twelve months in favor of 1903.

ASBESTOS.

Asbestos occurs in large deposits in the eastern townships of Quebec, where it was first worked in 1878. From 1880 up to the present date the production of asbestos has increased steadily. The output that year is given as 380 tons, while in 1901 over 38,000 tons are recorded in the returns furnished by the producers. The world's supply of asbestos is, for the most part, obtained from Canada, and the Quebec deposits have in the past proved to be the most profitable mineral mined in the province. Thirteen mining companies are at work in this industry.—Ex.

Trade Report.

CHICAGO IRON MARKET.

The market has been quite active during the past week, but results in the way of tonnage not very large.

Purchasers are watching prices closely, but it is almost impossible for either buyer or seller to discover what might be called the market price of any grades.

This is particularly true of Southern irons.

The tonnage booked is made up of small lots for quick delivery, not much contracting being done for forward delivery.

Prices, if not actually weakening, cannot be said to present anything encouraging.

PIG IRON.

The modified activity which made its appearance ten days or two weeks ago in foundry irons continues. The market is not dead, as it had been for months previously, but the buying is fairly good in small lots. Southern irons are the more active. The association furnaces are holding to $13.50, Birmingham, for No. 2 foundry and for their Spartan courage are occasionally booking a carload, a hundred-ton order being obtained more rarely still. But for the general run of the current trading, which is anywhere from 50 to 500 or more tons, those Southern furnaces that are cutting the association prices are getting the business. And the general level at which this business is being taken has fallen fractionally, as compared with a week ago. At that time a $13, Birmingham, contract was not rare; today the level generally accepted by the factors that are active in the closing business is $12.50, orders ranging from that price as about bottom up to $13, Birmingham. Several contracts of 500 tons each were closed and a more numerous business in lots of 200 to 300 tons. The usual policy of the melters is to buy thirty to sixty days' supply, the former being the more common. These buyers are inclining to the view that they can buy at $12 if they delay a while. Northern irons have declined relatively, but little business is reported. The Western furnaces are generally sold up some weeks ahead and are pursuing a rather negative policy, watching the developments and biding their time.

BARS.

A Western railroad company bought 4,000 tons of iron bars for twelve months deliveries and another order was placed for 1,500 tons. There has been a moderate trading in lots of 100 to 200 tons, for shorter deliveries. Prices are without notable change. The generality of orders are placed at from 1.65c to 1.70c, but large and desirable tonnages are said to have brought out some slightly lower quotations. Specifications on steel bars continue to come in in the livelier way noted last week, but buying for future shipment is not large. We quote mill shipments, Chicago delivery: Bessemer steel, 1.76½c; angles, less than 3x3, 1.86½c base; hoops in lots of 250 tons and greater, 2.06½c; less than this amount, 2.16½c; iron, 1.70c to 1.75c. Quotations from store, steel, 2c; iron, 2c to 2.10c; hoops, 2.40c to 2.50c; angles, 2.25c rates.

SHEETS.

Slight irregularity continues in the sheet trade, especially for the lighter gauges. The demand is not keen, but is considered fairly good for midsummer. We quote mill shipments, carload lots, Chicago delivery, as follows: No. 27 black, 2.75c to 2.85c; No. 28, black, 2.85c to 2.95c. Galvanized, 75 and 10 to 75 and 10 and 2½ per cent. On lots from store we quote No. 27 black, 2.95c to 3c; No. 28 black, 3.05c to 3.10c. Galvanized, 75 per cent to 75 and 2½ per cent.

PLATES.

While there have been no notable orders for plates this week, the specifications on old orders have shown sharp improvement, consumers who had been withholding specifications taking action, one of the specifications being for 4,000 tons, or rather more than the Western mills produce in a week. We quote mill prices, Chicago delivery, as follows: Tank steel, ¼ inch and heavier, 1.75c; flange steel, 1.85c. Prices for lots from stock: Tank steel, ¼ inch and heavier, 2.15c to 2.25c; 3-16, 2.25c to 2.35c; No. 8, 2.30c to 2.40c; No. 10, 2.35c to 2.45c; flange steel, 2.40c to 2.50c.

STRUCTURAL STEEL.

There is discussion concerning the erection of several buildings at Chicago which will involve a large tonnage of shapes, but no contracts have been closed within the past week. Some of the smaller producers report a good demand, but as compared with last year the store trade especially is showing some decline. Bridge work is remarkably lively and a heavy tonnage is going into that market. We quote mill prices, Chicago delivery: Beams and channels, 16 inches and under, 1.75c; 18 inches and over, 1.85c; universal plates, 1.75c; angles, 3x3 and larger, 1.75c; tees, 3x3 and larger, 1.80c; zees, 1.75c. Lots from store, 2¼c per pound.

MERCHANT STEEL.

Trading in merchant steel is light. Contracts were closed last season earlier than ever known before, and this year a record in the contrary direction promises to be made. However, there is some buying each week and specifications are fairly satisfactory. We quote mill shipments, Chicago delivery, as follows: Spring steel, 2.65c to 2.75c; sleigh shoe, 1.95c flat sizes; concave and convex, 2c; out of store, 2.15c; cutter shoe, 2.50c to 2.60c; machinery steel, 2.15c to 2.25c base; plow steel, 2.50c and upward, according to quality; toe calk, 2.30c to 2.40c; out of stock, 3c to 3.10c; ordinary tool steel, 6c to 7c; specials, 13c and upward; less than carload lots, 5 and 10 per cent higher; cold-rolled

shafting, carload lots, 47 per cent off; less than carload lots, 42 per cent off.

BILLETS AND WIRE RODS.

At the newly established price of $28, Chicago, for Bessemer billets, there have been sold this past week several hundred tons. For forging purposes open-hearth billets have sold at $33 to $38, according to quantity and deliveries.

HARDWARE MARKET.

Conditions in the hardware market continue much the same as last week, orders coming in in great numbers and for good quantities of goods, the demand being for practically all lines, a belated demand coming in for a great many summer goods, purchasers of which have put off buying until actual need. This is taking out a great many refrigerators, ice cream freezers, screen goods and goods of like kind for household comfort. Nails and wire continue to move in good volume. Builders' hardware continues to move much the same as we have reported heretofore, the character of goods demanded being of the better kind, showing that the character of buildings being erected are better and users of hardware are desirous of getting better material for their buildings. Bicycles and sundries are going out to the trade in good volume and for good quantities, the demand for sundries increasing considerably—this, of course, due to the greater amount of repairs for wheels that are now in use. The sale of wheels continues at a fair rate, a great many vacation seekers this year taking wheels with them for their added satisfaction and pleasure.

Paints, colors and varnishes continue to move into the hands of dealers and consumers in good volume. Window glass continues to move out in probably better quantities than for a little time past, the trade apparently appreciating a good thing when they see it, which is the ability to buy goods at very low figures. Sizes are getting scarcer and stocks lower, so that the trade who will want window glass will do well to buy their goods now, as there does not seem to be much prospect that glass will be made before late in the fall. Prices in a general way are firm, manufacturers in all lines reporting themselves very busy with prospective orders.

BARB WIRE.

Galvanized barb wire is $2.75 in carload lots and painted is $2.45.

WIRE NAILS.

Wire nails are $2.15 in carload lots.

CUT NAILS.

Cut nails are $2.30 in carload lots.

SASH WEIGHTS.

Sash weights are quoted at $27.00 per ton, f. o. b. Chicago.

OIL.

Linseed oil, pure boiled, is quoted at 37c per gallon; linseed oil, pure raw, is quoted at 36c per gallon.

CABINET SCRAPPERS.

Stanley's No. 80 cabinet scrappers are quoted at $8.40 per dozen.

KETTLES.

Copper kettles are quoted at 37c per lb.

ROPE.

Quotations on rope are as follows: Manila, 11¾c per lb; sisal, 9c per lb.

CREAM PAILS.

Quotations on cream pails, per dozen, are as follows: 14-quart, without gauge, $3.60; 20-quart, without gauge, $3.60; 20-quart, with gauge, $4.20.

HATCHETS.

Hammond hatchets are quoted at a discount of 30 to 30 and 10 per cent.

HANDLES.

Hay and manure fork handles are quoted at a discount of 40 per cent.

COPPER.

Copper has declined still further during the week, the present quotation being 13¼c for lake and electrolytic, and 12¾c for casting. The London closing cable was strong. Standard copper, closing, spot, £57 7s 6d; sales, 300 tons; futures, £55 12s 6d; sales, 450 tons.

Manufactured copper is unchanged, on a basis of 20c for sheet and bar. Yellow sheeting metal is quoted steady on a basis of 16c.

TIN.

Tin is slightly higher in New York, closing steady at 28⅜@28½c for spot lots. The jobbing price is lower at 28¾@29½c. London was cabled easy at £125 12s 6d for spot, and £122 10s for futures.

TIN PLATES.

Tin plates are steady, jobbing quotations remaining unchanged at: Melyn, $6.50@7; Alloway, $5.75@6.25; coke, $4.87½@6.50; ternes, $5.25@8; additional X, $1.50@1.75 more.

LEAD.

There is no change to note in the situation in lead. The association still refuses to make prices, but recent shipments have been billed at the old quotation, 4.17½c. Outside brokers are asking and getting 4.30@4.35c for car lots for prompt delivery. Here the jobbing quotation is 4¾@5c, according to quantity. The London quotation is £11 6s 3d. St. Louis is steady at 4.15@4.22½c; manufactured pipe is steady at 6½c; sheet, 7½c; tin pipe, 50c; tin-lined pipe, 12½c; old lead, in exchange, 3½c; tea, 3c.

NICKEL.

Nickel is steady at 40@47c for large lots. Small lots are quoted at 50@60c.

Current Hardware and Metal Prices.

THE AMERICAN ARTISAN AND HARDWARE RECORD is the only publication containing western hardware and metal prices corrected weekly.

METALS.

FIRST QUALITY BRIGHT PLATES.

		Per Box.
IC	14x14	$10 25
IC	14x20	7 85
IX	14x20	9 10
IXX	14x20	10 35
IXXX	14x20	11 60
IXXXX	14x20	13 85
IC	20x28	16 45
IX	20x28	17 95
IXX	20x28	20 45

COKE PLATES.

Cokes, 180 lbs	IC	20x28	9 15
Cokes, 200 lbs	IC	20x28	9 35
Cokes, 216 lbs	IC	20x28	9 65
Cokes, 216 lbs	IX	20x28	11 75

PIG IRON.

Lake Sup. Charcoal	$22 00@$23 00
Local Coke Fdy No. 1	18 50@ 19 00
Local Coke Fdy No. 2	18 00@ 18 50
Local Coke Fdy No. 3	17 50@ 18 00
Local Scotch Fdy No. 1	18 50@ 19 00
Ohio Strong Softeners, No. 1	21 50@ 22 00
Southern Silvery	18 85@ 19 35
Southern Coke No. 1	17 85 18 35
Southern Coke No. 2	17 35 17 85
Southern Coke No. 3	16 85 17 35
Southern Coke No. 4	16 35 16 85
Southern No. 1 Soft	17 85 18 35
Southern No. 2 Soft	17 35 17 85
Alabama Car Wheel	26 35@ 27 35
Malleable Bessemer	19 00@ 19 50
Jackson Co. Silvery	22 30@ 23 30

BLACK SHEET STEEL.

No. 16	per 100 lbs.	$2 65
No. 18-20	per 100 lbs.	2 75
No. 22-24	per 100 lbs.	2 85
No. 25-26	per 100 lbs.	2 95
No. 27	per 100 lbs.	3 05
No. 28	per 100 lbs.	3 15
No. 29	per 100 lbs.	3 30

SMOOTH STEEL.

Wood's Smooth	No. 15-17	2 85
" "	No. 18	2 95
" "	No. 20	3 05
" "	No. 22-24	3 15
" "	No. 25-26	3 25
" "	No. 27	3 35
" "	No. 28	3 45

PATENT PLANISHED SHEET STEEL.

Patent Planished Sheet Steel. "A" $10 20, "B" $9 20

GALVANIZED IRON

F.O.B Chicago. 70&10%

HOOP IRON.

¾x22	¾x20	⅞x20
$3 20 100lbs.	$3 10 100lbs.	$3 00 100lbs.
1x20	1¼x19	1½x19
$2 90 100lbs.	$2 85 100lbs.	$2 75 100lbs.

PAINTED CORRUGATED IRON.

8 x 2½ feet Sheets, 28 gage, per 100 lbs. $2 50

SOLDER.

XXX Guaranteed ¼&½	per lb. 20¾c
Commercial ¼&½	per lb. 20¼c
No. 1 Plumbers	17¾c

SHEET ZINC.

600 lb. Casks	base, per cwt. $6.90
300 lb. Casks	per cwt. 7.10
Sheets	per cwt. 7.15

COPPER.

Copper ..... base, 24c

TIN PIGS AND BARS.

Banca, pigs, per lb	35@35½c
Straits pigs, per lb	35c
Straits in bars, per lb	37c

LEAD.

American Pig	$4 60@4 62½c
Bar	6¼
National (White) brands (in less than 100 lb. lots) per lb	7¾

HARDWARE.

ADZES.

Carpenters'.	
Ajax	50%
Blood's	40&5%
Hunt's	25%
White's	12½%
Coopers'.	
Barton's	20%
White's	15%
Ship.	
Ajax	50%
Blood's	40&5%
Hunt's	25%
White's	12½%

AMMUNITION.

Caps, Percussion—per 1,000.	
F L Waterproof, 1-10s	40c
G D	35c
Eley's	52c
Cartridges.	
Peters Rim Fire Ctgs	50&3%
Peters Cent Fire, Pistol & Rifle	25&3%
Peters Cent Fire, Military and Sporting Ctgs	15&8%
Peters Blank Ctgs, except 22 and 32, an additional 10% from above discount.	
Peters Blank Ctgs. 22 cal.	$1 18
Peters Blank Ctgs. 32 cal., C. F.	4 40
Peters B B Caps, Round ball	$1 44
Peters B B Caps, Conical ball	$1 85
U. M. C. Rim Fire Ctgs	50&3%
U. M. C. Cent. Fire, Pistol & Rifle	25&3%
Winchester Cent. Fire, Military and Sporting Ctgs	15&8%
U. M. C. B B Caps, Round Ball	$1 75..18%
U. M. C. B B Caps, Con. Ball	$1 85 net
U. M. C. Rim Fire Shot Ctgs	50&15&3%
U. M. C. Cent. " "	25&15&3%
Primers.	
Berdan Primers	$1 00
Peters Primers	1 20
U. M. C. Primers	1 20
Winchester Primers	1 20
Shells.	
Peters Empty Paper Shells, 10 and 12 gauge. League	25&2%
Peters Empty Paper Shells, 16 gauge. League	20&2%
Peters New Victor Nitro Shls	20&2%
Ideal	25&7%
Peters Loaded Shells. League and Referee Semi-Smokeless	40&1%
Peters New Victor Loaded Shells with King's Smokeless	40&6%
Ideals Loaded with King's Smokeless	40&10&10&1%
U. M. C. New Club, 16 gauge	20&2%
U. M. C. New Club	25&2%
U. M. C. Nitro	20&2%
U. M. C. High Base	20&2%
Winchester Blue Rivals	40&1%
Winchester Yellow Rivals	40&1%
Winchester Repeater	20&2%
Winchester Leader	40&6%
U. M. C. Loaded Shells, Black Powder	40&1% full cases
Winchester Loaded Shells, Black Powder	40&1% full cases
U. M. C.	Smokeless 40&10&10&1% full cases
Winchester	Smokeless 40&10&10&1% full cases
Gun Wads—per 1,000.	
Peters Gun Wads	18%
U. M. C. Gun Wads	18%

Powder.			Each
King's Smokeless,	kegs		$11 30
" "	½ kegs		5 80
" "	¼ kegs		2 97
" "	1-lb. cans		51
" "	1-lb. " rifle		70
Dupont's "	50-lb. drum		22 45
" "	25-lb. kegs		11 30
" "	12½-lb. kegs		5 80
" "	6¼-lb. kegs		2 97
" "	1-lb. cans		51

Shot.	
Dropshot, sizes smaller than B, 25-lb. bags, per bag	$1 40
Drop shot, B and larger sizes, 25-lb. bags, per bag	1 65
Buck Shot, 25-lb. bags, per bag	1 65
Chilled Shot, 25-lb. bags, per bag	1 65

ANVILS.

Trenton, 70 to 80 lbs	9¾c per lb
Trenton, 81 to 150 lbs	9c per lb

AUGERS.

Boring Machine	60&10&5%
Carpenters' Vul.	60&10&5%
Hollow: Ives' New Pattern	25%
Bonney's—list $30.00	65&10%
Stearn's, No. 1 ..... *doz.*	$42 00
Stearn's, No. 3 ..... "	33 50
Post Hole.	
Dalbey, 8-inch ..... per doz.	$ 5 75
Digwell, 8-inch ..... "	13 00
Howe's, 6 and 8-inch.. "	12 50
Iwan's Improved	40 & 5%
Vaughan's, 6 to 9-inch per doz.	6 75
Rafting.	
Snell's	50&5%
Ship.	
Ford's, with or without screw,	40-5%
Snell's, " " "	40-5%

AWLS.

Brad, handled	per doz.	$0 26
shouldered, ass'd, 1 to 4	per gr.	1 10
patent, asst'd, 1 to 4	"	95
Harness, common	"	1 20
patent	"	95
Peg, shouldered	"	1 10
patent	"	40
Scratch, No. 2, handled	"	4 50
No. 1, socket handled	per doz.	1 15
Sewing, common	per gr.	1 10
patent	"	95

AXES.

Boys', Handled:	
Camp Fire, 3-lb., per doz	$5 75
" " 4-lb., freighters', per doz	6 75
Cast Steel, good grade, pr. dz.	5 50
Pioneer, per doz	6 75
Broad:	
Peerless	50%
Red Warrior, per doz	$18 50
Firemen's, per doz	15 50
Single Bitted (without handles)	
Gladstone, per doz	$6 75
Hubbard's " "	6 50
Hunt's " "	6 95
Lippincott's " "	6 25
Mann's " "	6 50
Pioneer " "	6 50
U. S. A. " "	7 75
Valley Forge " "	6 00
Second Quality " "	5 75
Double Bitted (without handles):	
Lippincott's per doz	$8 50
Mann's " "	8 50
Pioneer " "	9 25
U. S. A. " "	11 00
Valley Forge " "	8 25
Ship, Blood's " "	18 50

BALANCES, SPRING.

Frary's	50%
Pelouze	20%

BAGS, PAPER NAIL.

Pounds..	3	5	10	16	20	25
Per 1,000.	$1 60	1 85	2 60	3 40	3 90	4 75

BARS, CROW.

Pinch or Wedge Point.....cwt. $3 40

BEAMS—SCALE.

P. S. & W Co. 40%

BEATERS.

Carpet, Rattan	per doz	$2 40
Raymond's Steel Wire,	" "	80
Woven Wire, No. 4	" "	1 10
Egg.		
Dover Pattern	per doz.	$0 70
Genuine Dover	"	0 90
Mammoth Dover	"	1 75
Lightning	"	0 84
Lyon's (standard size)	"	1 75
Whip, French	"	1 35
Spiral	"	0 40
Spoon	"	0 40
Surprise	per gro.	1 45

BELLOWS.

Blacksmiths'	70&5%
Hand, 8 in. per doz.	$ 6 85
10 in. "	8 40
Molders', 12 in. per doz.	13 00

BELLS.

Call.	
2¾ in. nickeled bell, per doz.	$ 1 35
2¾ in. " brass bell "	3 60
3 in. " " " "	7 50
3 in. " silver alloy bell, per doz.	16 50
4½ in. " brass bell and base, per doz.	14 50
Cow.	
Ordinary Goods	70&5%
High Grade	60&10%
Jersey	70&10%
Door.	
Bigelow Automatic.. per doz.	$9 50
Rotary.	
3 in. bronzed iron bell "	5 25
3 in. nickeled " " "	7 50
3½ in. " " " "	9 00
Hand.	
Hand Bells, Polished	60@60&10%
White Metal	50%
Nickel Plated	40%
Swiss	60&5%
Silver Chime	33⅓%
Miscellaneous.	
Church and School, Steel Alloy,	50, 10 & 5%
Farm, lbs.. 40 50 75 100	
Each. $1 10 $1 30 $1 85 $2 65	
Miscellaneous Cont	
Strapped Sheep ..... per doz.	$1 90
House Gong	40&5%
Sleigh, Round, Loose	40&5%

BELTING

Leather—List dated Nov. 12, 1901.	
Standard	75%
Eclipse	60&10%
Extra Grade	50&10%
Rubber—	
Standard	75&5%
Amherst	65&10%
Extra	60&2½%

BEVELS—TEE.

Stanley's, rosewood handle, new list	40&5%
Stanley' iron handle	40&5%

BINDING—OIL CLOTH.

Zinc	75, & 10%
Brass	75%
Brass Plated	75 & 10%

BITS.

Auger.	
Extra Double Spur	70&5%
Ford's Car and Machine	40&10%
Ford Improved	40&10%
Ford's Sh p	40&10%
Irwin	30&10%
New Jenning's	5%
Russell Jenning's	25&7½%
Clark's Expansive	50, 10&5%
Steer's " Small	
new list	$22.0
Irwin Car	30&10%
Snell's Car	60&5%
" Ship	40&5%
" " Auger Pattern Car	40&5%
Center	40&10%
Countersink—	
Wheeler's ..... per doz.	$1 60
American Snail Head "	0 70
" Rose "	0 80
" Flat "	0 70
Buck Bros'. Flat "	2 60
German "	0 70
Dowel, New Jennings	40&10%
Gimlet—	
Standard Double Cut	50&5@50&10%
German Pattern per doz.	$0 48
Gouge "	0 80
Spoon "	0 80
Countersink "	1 30
Reamer—	
Buck Bros.' ½ Round. "	2 75
" " Square "	2 50
Standard ½ Round "	0 75
" Square "	0 75
German Octagon "	0 75
Screw Driver—	
Round Shank "	0 48
" extra quality "	1 40
Square Shank "	1 10

BLACKING—STOVE (See Polish.)

BLADES—SAW.

Butchers'—	
Standard ¾ & 1¼in	60&5%
Clock Spring	60&5%
Star	20%
Hack—	
Disston's	25&5%
Griffin's	35&5%
Star	20%
Wood—	
Jackson's per doz.	$2 25
Disston's—No. 6, 16, 26 & 045, $4 20; No. 11, $6.30.	
W. M. & Co.'s No. 20.. per doz.	$5 50

BLOCKS.

Snatch—	
Wooden	50&10%
Steel	40&10%
Tackle—	
Wooden	70&5%
Steel	50, 10&5%

BOARDS.

Stove	40%
Wash—	
Anchor per doz.	$1 60
Globe "	2 10
Banner "	2 60
Crystal "	3 15
Brass King "	3 15
Nickel Plate "	3 15
Enamel King "	3 15

BOBS—PLUMB.

Carpenters', 8½ oz. iron.. pr dz.	$0 65
1½ lb. " " "	1 60
2¾ lb. " " "	1 80
13 oz. lead "	3 00
6½ oz. brass "	3 30
Mason's, 3 lb. lead "	4 00

BOILERS—FARM.

Profit	30&5%
Solon	35&5%

BOLTS.

Carriage, Machine, Etc.	
Carriage	60&5%
Machine	60&5%
Elevator	50-10&5%
Plow	45&5%
Stove	60-5%
Tire	72½&5%
Wagon Box Strap	70&10%
Mortise Door—	
Gem	50-10&5%
Ives'	50&10%
Barrel—	
Cast	50%
Wrought	50&5%
" Bronzed	75&5%
Flush, Wrought, B. K	40&5%
Spring—	
Wrought	75&10%
" Brass	75&10%
Square—	
Cast	40%
Wrought	60-10&10%

BORERS.

Angular, Miller's Falls, per doz			$12 75
Bung, Common Ring with Handle— Inches	1¼	1¾	2
Per doz	$6 00	6 90	18

BORERS—CONTINUED.

Enterprise Mfg. Co., No. 1 List $1.50; No. 2, $2.00 each....25-10&5%

BOXES.

Mail, No..... 5 10 20
Per doz.....$3 65 10 50 13 00
Mitre—
New Langdon.....15&5%
Olmsted's 15%
Stanley's.....30%
Seavey's.....per doz 8 00
Twine, Nos... 20 30 25 121
Per doz ....$1 . 50

BRACES.

Common Ball.....$1 35@1 45
Barbers' Pattern .....60&10%
Fray's Gen. Spofford's.....50&10%
" No. 66 to 146.....50&10&7½%
P. S. & W. Co.'s Peck's Adjustable.....50-10&5%

BRACKETS.

Hay-Rack, Wenzelmann's No. 1, $12.60; No. 2, $13.20 per doz.
Shelf—
Cast Iron, Plain .....50&10%
Stanley's Wrought Steel.....
.....70-10&2½%
Wire.....75-10&5%

BROILERS.

Wire .....70&10%
Crown, Self-Basting, No.80..doz. $2 90

BUCKETS.

Pump Rubber—
Wychoff.....per gr. $4 75
Cooper..... " 5 50
Champion ..... " 7 50
Victor ..... " 9 50
Star..... " 5 00
IXL... ..... " 6 75
Well—
Galv'd Qts..... 8 10 12
Per doz $2 50 2 85 3 15
Wooden, top ear, plain, per doz 3 40
" " swivel " 4 65
" side-strap, plain " 3 50
" " swivel " 4 75

BUCKS, SAW.

Folding .....per doz $1 75

BURS, RIVETING.

Copper Burs Only.....35-10&5%
Tinners' Iron Burs Only.....70%

BUTTS.

Cast-Iron.....65&10%
Wrought Brass.....20%
Wrought Steel Bright—
Nos. 800, 804, 808, 810, 814 and 834
..... 70-10-10&5%
Nos. 838, 840 and 842 ...70-10-10&5%
Nos. 822 and 828..... 75-25-10-10&5%
Wrought Steel, Japanned—
Nos. 731 and 727.....70&10&10%

CALIPERS.

Double .....40&10%
Inside and Outside.....40&10%
Wing.....40&5%

CALKS.

Logger's Boot,(Lufkin R. Co's.)
.....per M $3 65
Toe.
Shoenberger.....per lb. 5c
Bessemer ..... " 5½c
American ..... " 7¼c
Swedes..... " 8¼c

CANS.

Cheese Factory Can Stock—
Gallons.... 15 20 30 40
Per set....$2 90 $3 15 $3 75 $4 75
Milk Cans—Gals.. 5 8 10
Elgin Pat., each, $ $1 90 $2 10
Iowa " 1 55 1 85 2 15
New Elgin" 1 65 1 90 2 00
New York " 1 80 1 95
Oil—
1 Gal. glass, Daisy....per doz. $2 35
1 " cushioned " 3 90
Star, gals..... 1 2 3
Per doz..... $1 85 $3 00 $3 90
Per doz.
Champion Faucet, 5 gallon...$ 5 65
Sterling Tilting....5 " ... 8 25
"High C" Pump...5 " ... 9 25
Eureka Pump.....5 " ... 12 25
Wood Jacket .....50-10&5%

CAPS—GUN.

See Ammunition.

CARRIERS.

Hay—
Myers' Imperial.....each $3 40
" Clover Leaf..... " 3 40

CARTRIDGES.

See Ammunition.

CASTERS.

Acme—Ball Bearing.....35%
Bed.....60&10%
Common Plate—
Brass wheel.....60&10%
Iron and porcelain wheel...50&10%
Philadelphia Plate.....65&10%
Martin's.....40-10&5%
Payson's.....75%
Tucker's—Wood and iron wheel..70%
" Rubber wheel.....65&10%

CATCHERS—GRASS

Lieder's No. 1.....per doz, $6 25
Eureka..... " 4 25
Ideal No. 4..... 50

CHAIN AND CHAINS.

Breast Chains—
Doubleslack.....doz. pairs $5 00
With Covert snaps " 4 75
" slide..... " 2 90
Without slide..... " 3 60
Bright Ox Chains—
5-16in. $6 75; ⅜in. $5 75 per 100 lbs.
Bright Coil Chain—
American, new list.....33⅓%
German.....60-10&5
Triumph, new list.....30%
Cable Coil Chain—
Inch..... 3-16 ¼ 5-16 ⅜
Per 100 lbs...$9 75 $7 25 $5 90 $4 75
Inch ..... 7-16 ½ ⅝ ¾
Per 100 lbs...$4 60 $4 50 $4 25 $4 25
Cable Log Chain—Advance 25c per 100 lbs. on Cable Coil.
Cow Tie Chains—
American 2 toggle.....40-10 & 5%
" toggle and snap, 40-10&5%
" open and closed
ring.....40&5%
Halter Chains—
American, new list.....33⅓%
German.....60-10&5%
Niagara, new list.....40&5
Triumph " 30%
Jack Chain—
Brass.....60%
Iron.....60%
Picture Chains—
Light Brass, 3 ft.....per doz. 68c
Heavy " 3 " ..... " 75c
Pump Chain—Galvanized per 100 lbs..... $4 45
Safety Chain—Brass.....60&10%
Stretcher Chains—
5-16 in., $7.75—⅜ in., $7.00 per 100 lbs.
Tie-Out Chains—Browns.....70&10%
Trace Chains—Western Standard—
6½— 6-2..... .....per pair 26c
6½— 8-2..... " 30c
6½— 8-3..... " 29c
6½—10-2..... " 35c
7 —10-2..... " 40c
Add 2c per pair for Hooks.
" 2c " for Twist Link.
Wagon Stay Chains—
Inch ¼ 5-16 ⅜
Per 100 lbs. $6.50 $6.00 $5.25
Well Chains—
With Swivel.....per doz. 95c
Without " ..... " 80c

CHALK-CARPENTERS'.

Blue.....per gross 58c
Red..... " 48c
White..... " 38c
Common White Sch'l
Crayon..... " 5½c

CHARCOAL.

In barrels .....per bu. 21c

CHECKS-DOOR.

Blount 30%
Blum-Jap'd, $6.25; Brzd., doz... $7.00
Columbia.....50, 10&5%

CHIMNEY TOPS.

Iwan's Volcano.....50%

CHISELS.

Box—
Inches..... 10 12 14
Round...per doz. $2.10 $2.25 $2.75
Flat.....per doz. 2.85 3.60 4.20
Cold—
Good quality.....per lb. 12@ 20c
U.S.A., extra quality..per lb. 28c
Socket, Framing and Firmer—
Barton's..... 30%
P S. & W. Co's..... 70%
For beveled back, add..per doz..... 60c
Tanged, Firmer—
P. S. & W. Co's.....35&5%
With Handles add... per doz. 60c
Choppers, Enterprise Meat—
No. 12.....$2 75
No. 22..... 4 50

CHUCKS-DRILL.

Standard Tool Co.'s 40%
Goodell's, for Goodell's Screw Drivers.....per doz. $6.25
Yankee, for Yankee Screw Drivers..... 5.00

CHURNS.

Anti-Bent Wood, Gal.. 5 7 10
Each $3.85 4.10 4.30
Belle, Barrel..... 70&5%
Common Dash, Gal.... 4 5 7
Per doz..... $6.75 7.50 8.00
Hero.....70%
Union, Gal..... 5 7 10
Each $3.65 3.90 5.00

CLAMPS

Adjustable—Martin's 40%
Carpenters'—Steel Bar..... 50%
Carriage Makers'—P. S. & W. Co.'s.....40, 10&5%
Hose—
Sherman's, brass, ¾ in., ... per doz. 33c
Double, brass, ¾ in...per doz. 65c
Saw Filers—
Disston's list, $30.00..... 30%
Stearn's, No. 0, $3.50, No. 1, $11.50, No. 3, $5.50 doz.
Wentworth's..... 40%

CLAWS-TACK.

Cast, wood hdle...per doz., 45@ 60c
Forged steel, wood handle .....per doz. 80c
Solid Steel.....per doz. $1.60
Giant..... .....per doz .60

Drain— CLEANERS.

Iwan's Adjustable.....50%
Iwan's Stationary.....40%
Pot—Wire.....per doz. $0.45
Side-Walk—Steel.....per doz. 3.15
Window—
Peerless.....50, 10&5%
XLCR.....65&10%

CLEAVERS.

Family—Ajax, In..... 6 7 8
Per doz $5 50 5.75 6.25

CLEVISES.

Malleable.....per lb. 4¼c

CLIPS.

Axle..... .....65&5%
Damper—
Standard .....per doz. $0.70
Troy ..... " .38
Hame..... " .20

Emery— CLOTH.

Ajax.....50&10%
B. & A.....50%
Hardware Wire—full rolls (100 ft.)
2 to 8 mesh black, per 100 sq. ft. $1.85
9 to 12 " " " " 2.15
2 to 8 " galv, " " 2.70
7 and 8 " " " " 3.25
An extra charge is made for 50 ft. lengths, and a still further advance for smaller pieces.
Screen Wire—
12 mesh, painted, per 100 sq. ft. $1.20
14 " " " " 1.85

COCKS—BRASS.

Compression Bibb.....60&10&5%
" Lock.....60&10%
Lever Bibb.....60&10%
Liquor .....per doz..$8 75
Racking .....60&10%

COFFEE MILLS.

Enter. Mfg. Co., list Jan 17, '93...25%
Parker's.....50%
Arcade.....60&10%

COLLARS—STOVE PIPE.

Inches	5	6	7
Plain Tin....per gr.	$2.50	$2.80	$3 75
Japanned Tin, "	3.90	4.20	5.40
Lacquered Brass"	3.30	3.60	4.80

COMBS—CURRY.

Nos.	000	20	321	330	417	416
Per doz.	$0.32	.80	1.00	.95	.90	1.00
Nos.	531	533	530	535	545	990
Per doz	$0.96	1.20	1.10	1.65	1.40	1.30

COMPASSES.

Carpenter's..... 70%
Pencil—Faber's.....per doz. $1.00

COOLERS—WATER.

Galvanized Lined—Lever Faucet.

Gal.	2	3	4	6	8
Each	$1.35	1.65	2.00	2.35	2.95

Galvanized Lined—Telegraph Faucet

Gal.	2	3	4	6	8	10	15
Ea	$1.65	2.00	2.35	2.65	3.30	3.65	4.90

Porcelain Lined—

Gal.	3	4	5	6	7	8	10
Ea	$4.50	5.75	7.00	7.75	8.60	10.40	12.25

COPPER—SEE METALS.

COPPERS.

Soldering—1 to 2 lb.....per lb. 25@29c
3 lb. and larger..... " 23c

CORD.

Picture—White Wire—List October 1900.....80&10%
Sash—
Baltic Braided Flax...per lb. 18½c
India Hemp, cable laid " 13 c
" " hawser " " 12 c
" " plain " " 13½c
Italian " cable " " 21½c
Russian " " " " 17 c
Samson, white " 31½c
" spot, " 30½c
Silver Lake, white " 24½c
" " drab " 31½c

CORKSCREWS.

Humason & Beckley.....33⅓%
Walker's.....33⅓%
Williamson's Regular.....50%
Williamson's Forged Worm.....50%

COTTERS—SPRING.

5-16 in. and smaller..... .....80&5%
⅜-in. and larger.....75%

COUPLINGS—HOSE.

Brass .....per doz. $1.00
Brass Plated..... " 85

COVERS, WAGON—SEE TENTS.

CRADLES—GRAIN.

Morgan's Grapevine ..per doz. $21 00

CRAYONS—SEE CHALK.

CROOKS—SHEPHERDS'.

American Pattern .....per doz. $6 75
Montana " ..... " 8 00
Scotland " ..... " 8 00

CROW BARS.

Pinch or Wedge Point, per 100 lbs..... $3 40

CUTTERS.

Meat—
Enterprise Nos. 5, 10, 12, 22, 32, and 42..... .....25%
No. 100, list, $18.00.....40&10%
Nos. 2 and 4.....25%
Ideal.....per doz. $9.75
Universal....No. 1 2 3
Per doz.....$10.75 $13.00 $18.00
Pipe-Stanwoods No. 1 2 3
Each.....$ .85 1.50 4.00
Slaw and Crout—
3-knife Crout..... ...per doz. $9.25
1 " Slaw..... " 1.35
2 " ..... " 2.00
Washer..... " 7.75

DAMPERS—STOVE PIPE.

Standard.....50&10%
American.....40&10%

DIES—STOCKS AND

Discount..... 40%

DIGGERS.

Post Hole—
Iwan's Split Handle..per doz. $8 00
Iwan's Perfection.....per doz. 8.00

DIVIDERS.

Wing..... 70%
Extension Wing.....35&5%

DIGGERS—POST HOLE.

Atlas.....per doz. $6.50
Eagle..... " 6.25
Eureka..... " 6.50
Hero ..les..... " 10.25
Ryan's..... " 17.00
See also Augers—Post Hole.

DOORS—SCREEN.

⅜ in. 4 panel painted per doz. $ 6.75
½½ " " " " 7.25
In. 4 panel natural pine, fancy..... .per doz.. 11.25

DOOR HANGERS—BARN.

Single Flange, D. B. Rail, ...per 100 ft. 1 60
Novelty Check Back, ... 3 in 4 in 5 in 6 in
Per doz. pairs, $2.60 $3.90 $4.95 $6.25

DRILLS.

Bit Stock..... .....60%&65&5%
Blacksmith's Twist.....60%
Breast—
Common.....each, $2.25
Millers' Falls..... " 2.10
Hand—
Goodell's Automatic—per doz.
No. 01 No. 03 No. 3 No 20
$7.75 $12.50 $14.25 $11.00
Goodell's Single Gear per doz. $16.00
Millers' Falls " " 12.50
" " Double " " 15.00
Reciprocating—
Goodells'.....per doz. $17 00
Bit Stock.
Standard List....60&5%@60%@10%

DRIVERS—SCREW.

Standard.....65&10%
Ajax.....70&5%
Champion..... 50%
" Pattern.....75&5%
Clark's Interchangeable.. ..... 33⅓%
Edison.....60%
Reed's Lightning.....50%
Goodell's Spiral.....50&10&5%
Yankee Ratchet.....50%
" " Spiral.....50&10&5%

ELBOWS.

Conductor.....60%
Adjustable Stove—In. 5 6 7
Smooth....per doz. $0.95 0.95 1.40
Plan'd..... " 2.10 2.35 3.00
Corrugated Stove—In. 5 6 7
Smooth.....per doz. $0.95 .95 1.40
Pol'd..... " 1.70 1.75 2.60
Plan'd..... " 2 60 2.85 3.50
Four-Piece Stove—In. 5 6 7
Smooth....per doz. $0.57 .60 .93
Pol'd..... " 1.00 1.05 1.50
Plan'd..... " 1.50 1.70 2.60

EMERY—TURKISH.

Size .....5 lb. pkgs. ½ kegs, kegs.
No. 60 to 150, per lb. 6¼c 4¾c 4½c
Flour.... . " 5¼c 3¾c 3½c

ENAMEL—IRON.

English, ½-pt. cans...per doz. $1.50
Nubian, " " ... " 1.80
O. V. B., " " ... " 1.25
Peerless 1 50

EXTRACTORS—PIG.

See Forceps, Pig.

EYES.

Bright Wire Screw—See Goods, B.W.
Drifting Pick .....60&10%
Hooks and—
Brass.....60&5%
Iron .....65&10%

FASTENERS, STORM SASH.

Moore's.....per doz. $0 80
Schroeder's..... " 1 50
Sensible..... " 1 10

FASTENERS, BLIND.

Zimmerman's.....Net

FAUCETS.

Angle Plug.....per doz. $0 84
Brass—Andrew's .....60&10%
Petroleum.....60-10&5%
Wood—Cedar .....40&50%
Cork Lined..... 60%
Metal Key.....65&5%
Measuring—Enterprise.....35&5%
See also Cocks.

FILES AND RASPS

Arcade .....75&5%
Black Diamond.....70&10%
Disston's .....75&10%
Great Western.....75&5%
Keystone Mill.....80&20%
Kearney & Foote .....75&5%
Mill, 2d quality.....80 & 10 &5%
New American .....75&10&5%
Nicholson's .....70&10%
Royal Mill .....80@20%
N. S. A.....70&10&5%

FILTERS.

Improved Natural Stone. $9 50@13 50
Subject to large discounts.

FORCEPS—PIG

Barber's.....per doz , $7 25
Superior..... " 4 75
Whisson's Imp..... 6 00

FORKS

Barley—
Steel.....66⅔, 10&5%
Wood, 4 tines, $5.25: 6 tines, $6.25 doz
Coal.....70, 10&2½%
Coke .....70, 10&2½%
Cottonseed.....70, 10&2½%
Hay—
Diamond, 2 tine.....65, 10&5%
" 3 " .....60, 7½, 10&5%
" 4 " .....66⅔, 10&5%
Golden Eagle, tine 60, 7½, 10, 10&5%
" " " ..66⅔, 10, 10&5%
Digging..... .....65&10&5%
Scoop .....70&10%

FORKS—CONTINUED.

Header—
I amond, 2 tine.....67½&10&5%
" 3 " .....60, 20, 10&5%
" 4 " .....66%&10&5%
Golden Eagle, 4 tine.....10&10&5%
Manure—
Diamond .....60 20, 10&5%
Golden Eagle.....60, 20, 20&5%
Ore.....70&10%
Spading—
Diamond .....70, 5, 10&5%
Golden Eagle.....70, 5&10%
Hack Saw— FRAMES
Crown.....per doz., $ 8 75
Miller's Falls..... " 10 00
Star..... " 2 85

FREEZERS—ICE CREAM

Arctic—Qts... 1 2 3 4 6
Each.....$1 10 1 30 1 50 1 75 2 30
Qts..... 8 10 12 15
Each.....$2 85 3 75 4 50 5 20
White Mountain, with Crank—
Qts..... 1 2 3 4 6
Each.....$1 20 1 65 1 90 2 10 2 70
Qts..... 8 10 12 15
Each.....$3 60 4 60 5 90 7 00

GATES.

Molasses and Oil.
Perfection.....50&5%
Stebbin's.....75&10&5%

GAUGES.

Butt and Rabbet.
Stanley R. & L. Co.'s ..20&10&2½%
Cream Pail, Fairmont, per doz..$3 75
Marking, Mortise, etc.....
.....50&10%@50&10&5%
Saw—Atkin's sgle. 55c, dbl. 80c pr doz.
Wire.
Disston's.....25%
P. S. & W. Co.'s.....20%

GIMLETS.

Discount..... .....40@40&10%

GLASS—WINDOW.

Single and double strength, 6x8 to 16 x24..... 90&5%
Larger sizes 90 10.5%

GLASSES—LEVEL.

Stanley R. & L. Co.....50&5%

GLUE.

Bulk.
B Amber .....per lb 9¾c
A White.....per lb 12½c
H. S. Amber.....per 'b 17 c
Liquid.
Eagle .....40 %
LePage's—
List "A".....37½%
List "B".....33⅓%
List "C".....25 %

GOODS.

Bright Wire..... 80&15%

GREASE, AXLE.

Wood Boxes.
Diamond.....per gr. $5.00
Frazer's..... 9.25
Hub Lightning..... 5.25
Paragon..... 6.75
Wood Pails.
Frazer's, 15 lb. 78c, 25 lb. $1.30 each.
Hub Lightning, 15 lb. 52c, 25 lb. 68c each.
Tin Cans.
1 lb. Frazer's carriage, pr. doz. $1.30
1½ lb. " wagon.. " 1.80
3 lb. " " " 2.40
5 lb. " " " 3.50

GRIDDLES

Soapstone.....40&5%

GRINDSTONES

Family—In..... 7 8 9
Per doz $2 25 9 50 11 00
Loose.
Per ton .....$20 00@$21 00
Mounted—
Ball Bearing..... 1 2 3
Each.....$3 30 3 10 2 95
Common Bearing... 1 2 3
Each $2 90 2 70 2 55

HAFTS—AWL

Brad—Common.....per doz., $0.18
Peg—
Common..... " 21
Patent, plain top..... " 46
" leather top .. " 52
Sewing—
Common..... " 21
Patent..... " 52

HALTERS

Jute Rope.....per dc $0 80
Sisal Rope..... " 1 95
Web ..... " 2 10
Leather, rope tie..... " 6 25
" leather tie... " 8 25

HAMMERS—HANDLED

Blacksmiths' Hand
Maydole's .....40&10%
Engineers'—
Maydole's .....40&10%
Farriers'.
Maydole's .....35&5%
Machinists'.
Maydole's .....40&10%
Nail.
Ajax.....per doz $5 75
Calumet..... " 3 40
Cast.....per doz $1 10@$1 50
Maydole's .....30&7½%
Vulcan .....35&5%
Riveting.
Maydole's.....35&5%
Shoe.
Cast.....per doz

Tack.
All Iron .....per doz $0 35
Pol'd Iron, Hickory hdl " 0 52
Mall. Iron, Inlaid..... " 1 50
Magnetic 1 2 3
Per doz..... 70c 80c 95c
Magazine.....per doz $4 75

HAMMERS—HEAVY.

Heavy Hammers and Sledges.
Under 5 lbs.....70&10%
5 lbs. and over 75%
Masons'—Single & Double Face..75%
Auger. HANDLES.
Common Ass'd.....per doz $0 36
Peck's Adjustable.... " 3 10
Roger's " .... " 4 15
Ives' " ....per set 1 25
Axe.....40%
Chisel.
Hickory, Tanged Firmer, Assorted, 24c; Large, 26c per doz.
Hickory, Socket Firmer, Assorted, 18c: Large, 21c per doz.
Applewood, Tanged Firmer, Assorted, 27c; large, 36c per doz.
Applewood Socket, Firmer, Assorted .....per doz 24c
Coal Pick 40%
Drifting Pick.....40%
File, assorted 13c, large 16c per doz.
Hammer.
Adze Eye.....per doz 42c
Blacksmiths'.....per doz 45c@65c
Machinists'..... " 39c@58c
Hatchet.....per doz 42c
Hay and Manure Fork.....40%
Hoe and Rake .....40&5%
Saw, Plain 72c, Varnished 68c per dz.
Screw Driver, Assorted 42c, Large 48c per doz.
Shovel and Spade .....40&5%

Barn Door—HANGERS
King .....per doz. prs., 5 00
Monarch .....60&10%
"Never Jump" Hinge.....50&10%
Peerless, Loose Axle.....60&10%
Perfection, Roller Bearing..70&5%
Phœnix, Roller Bearing.... 70&5%
Prouty .....per doz. prs., $5 50
Rival..... " " 2 90
Superb ..... " " 6 25
Safety Flexible " " 7 50
Wagner's Adjustable.....70@10%
Warehouse 60%
Conductor Pipe—
Iwan's Perfection.....50%
Parlor Door—
Acme.....per set $3 75
Ives' Improved ..... " 2 50
Lane's Standard..... " 3 50
" New Model.... " 2 80
Prouty..... " 3 00
Lundy.....50&10%
Eave Trough—
Baker's.....per gr., $3 60
Imperial 10%
Wire 25%

HASPS.

Hinge, Wrought.....70&5%
With Staples—See Staples.

HATCHETS.

Ajax .....40&10&5%
Blood's.....40&10%
Cast Claw.....per doz $1 50@$1 75
Cast Shingling.... " 1 20
Duffy's Barrel.....per doz 17 50
Germantown .....35&5%
Hammond's .....30&10&5%
Roger's Ideal.....per doz $5 25
Underhill's Star Lath.....40%
S. A.....30&10%

HAY RACK BRACKETS.

Wenzlemann's No. 1, per doz...$13 60
" No. 2, " ... 13 20

HINGES.

Blind.
Clark's Gravity, per doz sets....80c
Parker's..... .....65%
Shepherd's Noiseless, for Wood casing.... .....doz. $1 05
Gate.
Clark's, 1 2 3
Hgs & Lthls, dz.. $2 35 $2 60 $3 60
Hinges Only, " .. 1 70 1 90
Latches Only," .. 0 70 0 75
Knuckle.....per doz prs $6 00
Leed's..... " sets 6 75
Superior ..... " prs 2 25
Spring.
American.....25%
Bommer Bros. Ball B'rng Floor 40%
Bommer Bros. Spring Hinges .40%
Chicago.....25&5%
Clover Leaf.....per gro $9
Columbia Dbl. Acting....40&10&5%
Gem 25%
Ideal Detachable,....per gro $12 00
New Idea ..... " 9 60
Oxford.....20%
Wrought Iron.
Light Strap Hinges.....80&10%
Heavy Strap Hinges.....
.....80-10-10&5%
Light T Hinges.....75-10&10%
Heavy T Hinges.....75&10%
Extra Heavy T Hinges.....
.....80-10&5%
Cor. Heavy Strap .....80-10-10&5%
Cor. Ex. Heavy T .....80-10&5%
Screw Hook and Strap.
6 to 12in.....per 100 lbs. $4.00
14 to 20in ..... " 3.75
22 to 26in ..... " 3.50
Screw Hook and Eye.
¾ to 1in .....per 100 lbs. $6.50
⅝in ..... " 8.00
½in ..... " 10.00

HOES.

Garden.....75&10&5%
Grub:
Ajax .....50&10&5%
Extra.....60&10%
Hazel.....per doz $6 25
Ladies' and Boys'.....70, 10, 5, 10&5%
Mortar.....75, 7½, 10&5%
Planter's Eye.....60&10&2½%
Weed .....70, 10, 10&5½%

HOOKS.

And Eyes.
Brass .....50&10&5%
Iron..... .....65&10%
Awning.....per gro $1 80
Belt.....75&5%
Bench—See Stops, Bench.
Box, In. 6 8 10 12
Doz.. $1 25 $1 60 $1 70 $2 25
Humason & Beckley's...pr dz $2 40
(See Goods, Bright Wire.)
Bush.
Common Axe Handle
..... per doz $7 00@8 50
Hamilton Pattern.....per doz $7 25
Chain—In. ⅛&5-16 ⅜ 7-16 ½
Per 100 $7 50-7 75 $9 50 $11 25 $12 00
Clothes Line.
Japanned.....per doz 21c@22c
Galvanized..... " 35c
Coat and Hat.
Cast Iron.....per gro 72c@$1 00
Gem Wire.....65&10%
Conductor.
Malleable.....50&10%@50&10&5%
Wrought.....40&10%@50%
Corn.
Common, unpolished, per doz. $1 30
" polished... " 1 70
"Cut Easy," .....per doz. 2 65
Clyde's, ... " 2 40
Brooke's..... " 2 65
Gate.—See Goods, Bright Wire.
Grass.
Common, Nos. 2 3 4
Per doz..... $1 70 $1 75 —
German .....per doz $1 90
Little Giant..... " 3 10
Wood's..... ... " 1 80
Hammock.
Common..... " 31c
With Plate..... " 36c
With Screw..... " 36c
Piggot's..... " $1 05
Lambrequin or Drapery...per gro 21c
Picture .....50%@50&10%
Potato and Manure.....70&10&7½%
Screw, Brass.....80&20%
(See Goods, Bright Wire.)
Seat Spring .....per lb 6½c

HOOPS—TUB.

Ever Ready..... per case $1 65

HOSE—GARDEN.

Ply 3 4 5 6 8
Black, pr ft. 7½c 8½c 9½c 10½c 12½c
Cotton, 3 ply.....per ft 6½c
Red, 3 ply ..... " 7½c

HUSKERS.

Boss.
Nos. E A B P PX
Dz. $1 85 $2 00 $1 95 Gr. $5 90 $5 20
Nos. 2000 3000 4000 O OX
Gr. $3 10 $6 75 Dz. $1 15 $2 20 $1 65
Brinkerhoff's .....per gro 14 50
Harrington..... ....per gro 4 20
Ideal—Nos. 102 101 100
Per doz..... $1 35 $2 50 $2 75
Johnson's ....per gro 7 75

IRON.

See Metals—First column.

IRONS.

Curling.
Common ....per doz 33c@48c
Princess.....per doz $0 60
Yale..... " 0 84
Oxford..... " 1 10
Ruby..... " 1 50
Tourist, Folding ..... " 0 90
Pinking..... " 0 60
Plane.
Wood Beach.....20&5%
Stanley R. & L. Co. (new list)25&5%
Sad.
Charcoal.....per doz $11 25
Common, Polished, per 100 lbs 3 50
" Nickel Plated, " 4 75
Chinese Polishing.....per doz 7 60
Laundry, No. 1, $5 75; No. 2, $6 25 per doz.
Mrs. Pott's.
No. 50 J, Enterprise...per set 76c
No. 55 J, " ... " 73c
No. 50 T, " ... " 79c
No. 55 T, " ... " 76c
No. 50, Howells ..... " 77c
No. 55, " ..... " 74c
Tailors' Sad .....per lb 4¼c
" Geese..... " 4¼c
Tuyers.
Single Duck Nest.....per doz $5 25
Double " " ..... " 6 25
Sutton.....each 2 60

JACKS.

Locomotive .....75&5%
Wagon.
Meeker's .....per doz $1 25
Miller's No. 2 ..... " 7
Winner..... " 7

KETTLES.

Brass.....20%
Caldron.....50%
Copper.....per lb 27½c
Malin.....65&10%
Sugar .....50&10&5%

KNIVES.

Best Topping.
Clyde, 9-in. Scimiter Blade.dz $4 25
" 12-in. Straight " .dz 3 50
Cooper's Hoop ... .15%
Corn.
Acorn.....per doz $2 65
Ajax..... " 3 25
Clipper, Light, $1 75; Heavy, $1 90 per doz.
Disston's.....per doz $3 15
Easy ..... " 7 75
Rugged Razor ..... " 2 40
H. S. Earle's ..... " 3 15
Drawing.
Standard.....70%
Adjustable 30%
Barton's Carpenters'.....10&5%
" Folding Handle....25&5%
Hay.
American, Sickle Edge...doz $10 25
Canton, Sickle Edge..... " 8 25
Heath's..... " 8 25
Iwan's Sickle Edge..... 10 00
Lightn'g, Holt's Genuine " 6 50
Lightning Pattern..... " 6 25
Wadsworth's Sp'r Point. " 8 75
Hedge.
Ajax, Heavy, $5 75; Ex. Heavy, $7 75 per doz.
Mincing.
Common, Single .....per doz 48c
" Double..... " 65c
Streeter, 4 Blade, $1 30; 6 Blade, $1 90 per doz.
Putty.
Common.....per doz 84c
Goodell's.....per doz $1 30@$1 80
Russell's..... " 1 75@ 2 25

KNOBS.

Base, 2½-in. Maple, Rubber Tip,
.... per gro $1 60
Door, Mineral.....per doz 0 80
Porcelain ..... " 0 90
Jet..... " 0 85
Picture.....60&10&5%

LADDERS.

Common Long .....per ft 8½c@13c
Extension .....per ft 10½c
Step.
Common..... " 6½c
With Shelf, add 10c.
I X L.....per ft 17c
Miller's Household. per ft 13c@15c

LANTERNS.

Bull's Eye Police.
3-in Flash Light.....per doz $6 00
2¾-in Regular..... " 4 00
3-in Regular..... " 5 00
Tubular, Berger.....40&10&5%

LEADERS—CATTLE.

Nos. 1 2 3
Per doz... $0 70 $0 85 $3 75

LEATHER—LACE.

Cut .....50&10%
Sides, Ex. Quality.....per sq ft 20c

LEATHERS—PUMP.

Valve and Plunger.....50%

LIFTERS.

Stove Cover.
Japanned.....per gro $2 75
Coppered..... " 3 60
Chilkoot..... " 4 25
Devore's..... " 5 50
Zero ..... " 3 90
Transom, Payson's.....70&10%

LINES.

Chalk, Twisted in 20-ft hanks.
Nos. 15 14 13 12 11
Per doz.. 10c 12c 17c 22c 29c
Twisted in 50-ft balls.
Nos. 1 2 3 4
Per doz.... 24c 30c 36c 44c
Braided in 20-ft hanks.
Nos. 0 1 2
Per doz..... 23c 26c 33c
Masons', in 100-ft hanks...doz $1 60
Clothes.
60-ft Jute .....per doz $0 95
72-ft " ..... " 1 10
60-ft Sisal ..... " 1 60
72-ft " ..... " 2 10
60-ft Cotton..... " 1 35
50-ft Braided Cotton.....95%

LINING—STOVE.

In Bricks.....per crate 42c

MACHINES.

Boring Without Augers. With Augers.
Ajax .....per doz $5 25 $6 75
Angular... " 3 25 5 00
Boss ..... " 4 50 5
Upright... " 2 90 4
Leather Riveting.
Chicago, Pomeroy ....per doz $9 75
Excelsior..... " 2 50
Handy..... " 2 10
Little Giant..... " 3 10
Pony, Pomeroy..... " 8 00
Washing.
Boss. 1 2 5 3
Per doz.. $57 00 $63 00 $69 00 $60 00
Globe, No. 1.....per doz $51 00
O K Rotary ..... " 58 00
Round Wayne..... " 36 50
U. S. Steel..... " 60 00

MALLETS.

Carpenters'.
Fibre Head, Small. Med. Large.
Per doz..... $5 00 $5 75 $6 75
Round Hickory.....per doz $1 75
" Lignumvitæ.... " 2 75
Square Hickory..... " 1 75
" Lignumvitæ .. " 3 25
Tinners'.
Applewood ..... " 1 05
Hickory..... " 0 80
Hickory Sheet Iron. " 8

Door. MATS.
National Rigid.....60&5%
Queen Flexible.....50%
Stove.
Standrd Quality.....per gross $2 75
Best " (Pure) " 4 75
Wire Covered Asbestos, Ex. Heavy.....per doz 1 00

MATTOCKS.
Ajax.....50&10%
Extra.....60&5%

MAULS.
Iron, lbs.	10	13	16	18	21
Per doz.	$3 40	$4 20	$5 00	5 50	$6 00
Wood face, lbs.	10	11	12		
Per doz.....	$4 75	$5 00	$5 25		

Wood Choppers'.
Lake Super'r & Oregon Pat.70&10%

MEASURES.
	½ pk	1 pk	½ bu
Galvanized..per dz		$3 75	
Japanned.... "	$1 50	2 25	$2 90
Iron Bound. "	1 40	1 70	2 00

Babbitt. METAL.
Alm.....per lb 8¾c
Best..... " 23c
Common, No. 4..... " 6½c
Copper Mixed..... " 18½c
Magnolia Metal..... " 19c
Tony..... " 10¼c
See Metals—In first column.

MICA
First Quality.....40, 10&5%
Second Quality.....60%

MILLS—COFFEE.
Enterprise.....35&5%
National.....30%
Parker.....50&10%@60%

MOPS.
Erie.....per doz $3 15
Handled Cotton.
Lbs.	¾	1	1¼	2
Per doz..	$1 40	$2 10	$2 25	$2 95

MOWERS—LAWN.
Ball-Bearing.
In.	15	17	19	21
Each.....	$7 00	$7 60	$8 25	$8 90
Champion.
In.	12	14	16	18	20
Ea..	$3 10	$3 15	$3 15	$3 20	$3 25
Champion, High Chief.
In.	16	18	20
Each.....	$3 40	$3 70	$4 00
Cheap Grades.
In.	12	14	16	18
Each.....	$1 90	$1 95	$1 95	$2 10
Clipper.....50&10&10%
Girard, in. 14 16
Each..... $2 60 $2 80
Philadelphia.
All Styles Except A & E.....70&5%
Style A.....60&5%
Style E, High Wheel.....70,10&5%
Drevels.....50%
All Day.....Net Price

Horse. MUZZLES.
Nos.	1	2	3	4	5
Doz.	$0 30	$0 50	$0 55	$0 70	$1 00

Horse Shoe. NAILS.
Ausable.....50%
Capewell.....10%
Perfect.....40&5%
Putnam.....35½%
Star.....35%
Picture.
Brass Head.....40&10%
Judd's.....40&10%
Brads.....80&10&10%
Wire Nails—Small lots.....$2.30
Car load lots..... 2.20

NETTING—POULTRY.
Galvanized Before Weaving.80&20
" After Weaving...80&15
Cut Pieces.....65&5%

NIPPERS.
End Cutting.
P. S. & W. Co.....40&5%
Stubb's Pattern.....40&10&5%
Hoof.
Heller's.....40&5%
P. S. & W. Co.....40&10%
V. & B.....40-5%

Hose. NOZZLES.
Genuine Boston.....per doz $3 40
Genuine Gem..... " 3 60
Magic..... " 3 60

NUTS—HOT PRESSED.
Square Blank.
In.	¼	⅜	½	⅝	¾	⅞	1
Lb.	7½c	5½c	4⅞c	4⅝c	4½c	4¼c	4¼c
Square Tapped.
In.	¼	⅜	½	⅝	¾
Lb.	14c	9½c	7¼c	6½c	6¼c

OILS.
Linseed, Pure boiled.....per gal 37c
" " raw..... " 36c

OILERS.
Chase Pattern.
Brass and Copper.....42%
Zinc.....41%
Engineers'.
Cannon.....4&5%
Steel.....60&10&5%
Tin.....per doz $2 25@$2 75
Machine.
Ajax.....per doz $0 80
Copper Plated Steel... " 1 50
Malleable Iron.....40&10&5%
Tin.....per doz 55c@65c

OPENERS.
Box, in.	10	12	14
Flat...per doz	$2 85	$3 60	$4 15
Round.. "	2 10	2 25	2 [illegible]
Can.
American.....per doz $0 25
Delmonico..... " 1 50
Never Slip..... " 0 62
Perfect..... " 1 25
Tip Top..... " 0 84
Crate, V. & B..... " 5 75

OUTFITS—COBBLING.
Combination.....per doz $11 50
Economical..... " 4 90
Family..... " 10 00

PADLOCKS.
Standard Wrought.....70&10&5%
Champion.....50%
Eureka.....40&10&5%
Yale.....60&5%
Cream. PAILS.
14-qt., Without Ga....per doz $2 75
20-qt., " " .... " 3 25
20-qt., With Gauge.... " 4 20
Sap, 10-qt., Galvanized, $1 60; 12-qt., Galvanized, $1 85 per doz.
Stock, Galvanized.
Quarts.	14	16	18	20
Per doz...	$3 75	$4 00	$4 65	$5 25
Water, Galvd, qts. 10 12 14
Per doz..... $3 00 $3 30 $3 60
Wood.
Cable, 2-Hoop, $1 70; 3-Hoop, $1 90 per doz.
Cedar, 3-Hoop, $3 50 per doz.
Standard, 2-Hoop, $1 55: 3-Hoop, $1 75 per doz.

PANS.
Dripping.....50&10&5%
Fry, Common.....60&10&5%
Acme.....60½&5%
Roasting.
Brownie.....Each 30c@37c
L. & H..... " 58c@80c
Building. PAPER.
Plain.....per 100 lbs $1 15
Tarred..... " 1 25
Tarred Felt..... " 1 80
Diamond A, Red Rosin.pr roll 0 62
Leader, Red Rosin..... " 0 48
Sand and Emery.
Ajax.....50&10%
B. & A.....50 & 5%
Wrapping.
Grecian Express.....per lb 3½c
Rag..... " 2½c
Apple. PARERS.
Bay State.....per doz $13 00
Reading..... " 6 75
Turntable..... " 6 00
White Mountain..... " 5 25
Potato.
Goodsell's Saratoga..per doz. $6 50
White Mountain..... " 6 00

PICKS
Adze Eye Ore.....60&5%
Drifting and Poll Picks.....60&10%
Ajax Railroad.....50&5%
Extra Railroad.....60&10%
Surface.....60&10%

PINCHERS.
Carpenters', wrt. iron, pol. steel jaws.....30%
Blacksmiths'.....50%
P. S. & W.....40&10&5%
Clothes. PINS.
Common.....per gr..$0 12
Hoyt's..... " .. 30
U. S..... " .. 70
Picket.
Fluted.....per doz..$0 90
Round..... " .. 1 75
Spiral..... " .. 1 90

PIPE.
Conductor.	Nested	Not nested
Eastern.....	70&12½%	70&7½%
Central.....	70&7½%	70%
Southwst'n..	65-&7½%	65&2½%
Mo. River....	70&7½%	70%
Southern.....	65&10%	65&5%
Lead.
Full coils.....per lb..$0 6
Cut " ..... " .. 6¼
Stove.
Acme—In.	5	6	7
Smooth, per jt.	10¼c	10½c	12½c
Planished, " ..	32c	35c	42 c
Peerless—Smooth..	8½c	9c	11½c
Polished.	16c	18c	22 c
Planished	28c	31c	40 c
Made-up—In.	5	6	7
Smooth.....	8¾c	9c	12 c
7 to 6 in. Smooth Tapers, pr jt..14c
6 in. Smooth T's..... " ..30c
7 to 6 in. Planished Tapers.....45c
Wrought Iron Gas Pipe.
¼-in., black.....discount, 60%
⅜ " ..... " 63%
¼-in. to 4-in., black.... " 69%
4½ " 6 " .... " 66%
7 " 12 " .... " 64%
¼ " galvanized " 48%
⅜ " " " 50%
½ " to 4 " " 56%
4½ " " 6 " " 52½%
7 " " 12 " " 50%

PLANES.
Ohio.....60&5%
Stanley Planes, new list..30%@30&5%
Bailey Planes.....35%
Sandusky.....20%
Corn, PLANTERS.
Monitor.....per doz..$7 75
Triumph..... " .. 6 00
Potato
Acme.....per doz.. $6 25
Challenge..... " .. 10 75
Fencing.
Cronk's.....per doz..$9 25
Farmers' Choice..... " .. 8 75
Russell's..... " .. 8 65
Flat and Round Nose.
Bernard's.....30%
German.....50%
Lodi.....40%
Paragon.....40&10%
P. S. & W. Co.....60%
Gas—In. 8 10 12
Per doz.....$3.10 $4.00 $4.90

PLUMBS AND LEVELS.
Common.....75%@75&10%
Cook's.....40%
Davis' Iron.....30%
Davis' Inclinometer.....20%
Stanley's
Nos.	00S	0S	2S	3S
Per doz..	$4.50	$5.20	$7.60	$8.65
Nos.	30	25	50	35
Per doz.	$13.00	$17.50	$17.50	$12.35

POINTS. Discount
Drive Well Points.....80&10&5%

POKERS—STOVE.
Wr't Iron, str't or bent, per doz.$0 50
Wr't Iron, wood hand'l's " 75
Nickel pl'td. coil hdl's.. " 70

POKES—ANIMAL.
American.....per doz.....$2 60
Brown's wr't steel " ..$5 25@6 25
Eagle..... " $4 25
Success..... " 2 60

POLES—FISHING.
Bamboo
Ft.	12	14	16	18	20
Pr 100..	$2.75	$3.40	$4.75	$6.00	$7.75

POLISH.
Metal.
Pride of the Bar..... " .. 1 60
Putz Cream.
Pts.	1-6	¼	½
Per doz.....	$0.84	$1.25	$1.80
Pts.	1	2	4	8
Per doz.	$3.60	$6.00	$9.00	$18.00
White Silk, half pints, per doz.$2 00
White Silk, 6 oz. cans, per doz. 1.00
Wondershine
Pts.	1-6	½	1	2
Per doz...	$0.68	$1.30	$2.15	$3.00
Shoe.
M. D. C.....per doz..36c@50c
F. C. O..... " 40c
T. M..... " 50c@$1 25
Imperial.....per gr.....$5 00
Stove.
Black Eagle, 1 lb cans, pr gr..$15 00
Black Silk—
5 lb. pail..... 70c
Paste, 5 oz. cans per doz.....$1.00
Paste, ½ lb cans, per doz... 1.00
Black and Japanned—
Liquid, ½ pint cans per doz. 1.00
Liquid, 6 oz. cans per doz.... 75c
Steel Range Gloss per doz... 1.75
Blackene, 1 lb cans....pr gr.. 13 00
Black Jack, ¾ lb cans. " .. 9 00
Dixon's Carb. of Iron. " .. 5 75
Nickel Plate..... " .. 4 50

POPPERS, CORN.
Round or Square, 1 qt. per doz., 85@95c
Square, 1½ qt.....per doz., $1 00
Square, 2 qt.....per doz., 1 25
1 qt. reversible.....per doz., 1 50

POTS—FIRE.
Bernz.....each..$2 85
Clayton & Lambert's, each, $4 75@6 25
Gate City.....each.. 6 25
Gem..... " .. 6 75

POWDER.
See Ammunition.

PRESSES—FRUIT AND JELLY.
Enterprise Manufacturing Co... 35%
Henis.....per doz. $2 10

PRUNERS.
Disston's Pole.....per doz..$7 50
Henry's Improved..per doz..65&10%
Water's Improved. " 70, 10&5%

PULLERS.
Cork.
Modern.....each..$2 60
Quick and Easy..... " .. 2 90
Nail.
Giant.....per doz..$9 00@10 50
Giant Pattern. " .. 6 00
Tuck—Giant.... " .. 60

PULLEYS.
Awning--Jap'd.....40&5% to 35&5%
Clothes Line.....20&10%
Hay Fork.
Iron Wheel, 5 in.....per doz..$1 70
Wood Wheel, 6 in... " .. 1 60
Wood Wheel, 6 in... pass knot..... " .. 1 75
Hot House--Jap'd.....30&5%
Screw..... " .....30&5%
Side..... " .....30&5%
Sash.
Chicago.....per doz..$0 29
Clark's..... " .. 42
Common Sense, 2 in.. " .. 27
" Pattern, 2 in.. " .. 22
Empire..... " .. 24
Ideal..... " .. 24
Grand Rapids, No. 17 " .. 24
" " No 11 " .. 25

PUMPS
Pitcher Spout.
Nos.	1	2	3	4
Each.....	$0.95	$1.05	$1.15	$1.40
Spray.
Blizzard.....per doz..$14 25
Cyclone, tin..... " .. 3 90
" copper..... " .. 6 75
Daisy..... " .. 8 75
Little Giant.....each.. 3 40

PUNCHES.
Conductors', No. 25....per doz..$3 50
Machine.....per lb . 19
Saddlers'.
Common.....per doz..60c@70c
Good..... " ..72c@84c
Spring.
1 Tube.....per doz. $2 25

PLATES--TIN.
See Metals in Column 1.

PLIERS.
Button's--In. 4½ 6 8 10
Per doz.....$2.60 $3.10 $3.90 $5.20
Button's Pattern.
In.	4½	6	8	10
Per doz....	$2.35	$2.50	$3.45	$4.40
Cutting.
Cronk's Comb.....per doz..$6 25
Bernard's.....30%
Lodi.....40&10&5%
Stubb's.....50%
4 Tube, revolving.... " .. 5 25
Tinners'.
Hollow.....40%
Solid.....each..5½c

PUTTY.
In Bladders.
Strictly pure.....per 100 lbs. $2 35
Commercial..... " " 2 10

RAIL.
Barn Door.
Light Wrought.....per ft. 3c
Safety..... " 5½c
Single Flange..... " 1¾c
Smith's Wro't Bracket—plain 3¼c
Smith's Special..... 4¼c
Smith's "Never Jump".....11c 50%
Smith's Plain Steel.....30%
Smith's Milled Steel.....4¼c
Sliding Door.
Painted iron.....per ft. 4¼c
Bronzed wr't iron..... " 8½c

RAKES.
Coal or Road.....per doz. $5.25
Garden.
Steel, braced.....70&10&5%
Steel, bow.....70,5,10&5%
Malleable iron, heavy.....70@10%
Hay—Wood.....per doz. $1 05@1 70
Lawn—Wood.
Common.....per doz. $2
Automatic..... " 6 00
New Lawn Queen..... " 3 60
Jumbo, 36 teeth..... " 5 75

RASPS—See Files.

REGISTERS.
List July 1, 1903.
White Japanned.....75&10%
Nickle Plated.....75&10%
Copper.....75&10%
Electro Plated Brass.....50%

RINGS
and Ringers—Hog.
Blair's Rings.....per doz. 60c
Blair's Ringers..... " 84c
Brown's Rings..... " 65c
Brown's Ringers..... " 90c
Champion Rings..... " $2 35
Champion Ringers..... " 1 70
Hill's Rings..... " 48c
Hill's Ringers..... "70c@95c
Mazor Rings..... " 80c
Mazor Ringers..... " $1 15
Perfect Rings..... " 84c
Perfect Ringers..... " $1 05
Wolverine Rings..... " 1 50
Wolverine Ringers.... " 70c
Bull.
Copper,	2½-in.	3-in.
per doz.....	$1 35	$1 70
Steel.....per doz.	95	1 05
Steel, Nickel Pl'd, 2¾-in., doz. 1 35
Rea's Self Piercing.....$1.95
Fruit Jar—White.....per lb. 30c
Key.
Split, round.....per doz. 1
Split, square..... " 32c
Ball, round..... " 32c

RIVETS.
and Burrs.
Copper Belt.....50&10&5%
Coppered Iron.....75%
Tinners'.....75%
Hame.....per lb.
Slotted Clinch.....per doz. 70c@75c
Tubular—Nos. 1 and 2, assorted sizes.....per doz. 60c

ROPE.
Per lb.
Manila, 7-16 inch diameter and larger.....11¾c
Sisal, 7-16 in. and larger.. 9c "
Cotton.
¼ and 5-16-in. on reels...per lb. 12c
¼ and 5-16-in. in coils... " 13½

RULES.
Boxwood.....60%
Ivory.....35&5%

SASH WEIGHTS.
Per ton, f.o.b. Chicago.....$30.00

SAWS.
Back.
Disston's.....35&7½%
Jackson's.....35&7½%
Butchers'—Disston's.....35&7½%
Circular.
Disston's.....50%
Hiles'.....50%
Compass.
Common.....per doz. $1 35@1 60
Disston's.....35&7½%
Cross-Cut.
Atkin's.....40%
Disston's.....40&10% &50%
Pocahontas Bit.....per ft. 39c
Pocahontas, Blued..... " 41c
Dehorning.
Atkins'.....per doz. $5 50
Disston's..... " 5 75
Hack.
Disston's.....25½%
Keystone.....33⅓%
Sterling Hack Saw Blades.....25%
Sterling Hack Saw Frames.....20%

SAWS—CONTINUED.

Hand and Rip.
Brown's .....30&7½%
Disston's No. 7.....30&7½%
Disston's Nos. 8, D8, 12, 76, 112, D100, and 120.....25&7½%
Gorham's Comb.....30&7½%
Keystone.....30&7½%
Sam Sickles', hand...per doz. $4 25
"I Will," hand..... " 5 75
"I Will," rip..... " 6 75
"U. S. A." hand..... " 12 25
"U. S. A.' rip.. ..... " 14 25
Keyhole—Disston's .....25&7½%
Kitchen.
Sterling.....25%
One man 50%
Panel.
Brown's .....30&7½%
Disston's No. 7.....30&7½%
Disston's Nos. D8 and 12, D100 and 112.....25&7½%
"I Will" 40%
"U. S. A.".....40&10&5%
Pruning.
Avery's Duplex .....25&7½%
Brown's .....25&7½%
Disston's.....25&7½%
Wood.
Common.....per doz. $4 50
Handy ..... " 7 50
Happy Medium ..... " 7 00
Wood Sawyers' Delight " 8 25

SAW SETS.

Common Lever.....per doz. $ 1.20
Stillman's Lever.....per doz. 1.30
Leach's.....per doz. 5.00
Nash's.....per doz. 4.20
Monarch.....per doz. 6.50
Aikin's Pattern.....per doz. 3.50

FRAMES—SAW.

Common, plain.....per doz. $1 20
" painted..... " 1 60
Counter. SCALES.
Fairbank's Standard.....40%
Hatch's.....per doz. $21 50
Little Detective, 1 2 3
Each $2 00 2 25 2 10
No. 1 Tea .....per doz. 7 75
Union Platform.....each 2 35
Pelouze 25%
Turnbull's Market.....50%
Platform.
Common, 600 800 1000
Each $8 75 9 75 10 75
Chicago Standard.....30 to 33⅓%
Fairbank's Standard.....40%
Osgood.....50%

SCOOPS.

Ames.....10&10%
Eastern Pattern. Socket Strap.
Nos. 2 3 4 5 6
Per doz. $7.00 7.25 7.50 7.75 8.00
Nos. 7 8 9 10 12
Per doz. $8.25 8.50 8.75 9.00 9.50
Western Pattern. Socket Strap.
Nos. 1 2 3 4 5
Per doz. $7.00 7.25 7.50 7.75 8.00
Ajax. *Eastern Pattern,*
Nos. 2 3 4 5
Per doz. $5.25 5.50 5.75 6.00
Nos. 6 7 8 9
Per doz. $6.25 6.50 6.75 7.00
Ajax. *Eastern Pattern,* extra heavy.
Nos. 3 5 6 7
Per doz. $7.25 7.75 8.00 8.25
Ajax. *Western Pattern,*
Nos. 4 5 6 7
Per doz. $5.75 6.00 6.25 6.50
Nos. 8 9 10 12
Per doz. $6.75 7.00 7.25 7.75

SCRAPERS.

Box.
Stanley's Adjustable, per doz. $3 60
Triangular..... " 2 10
Cabinet.
Ajax .....per doz. $2 25
Cast Steel ..... " 65c@75c
Stanley's No. 80..... " $8 40
Road.
Cubic ft. 7 5 3
Without runners, ea. $5.00 4.75 4.50
With runners.... " 5.25 5.00 4.75

SCREWS.

Bench.
Iron.....30%
Wood, white maple..per doz..$3 60
Hand—Wood.....20%
Hand Rail.....70&10%
Jack.....75&5%
Lag or Coach, Gimlet Point..70&10%
Sale—Centennial.
Nos. 1 2 3 4
Per doz..... 22c 25c 32c 36c
Wood.
F. H. Bright Steel.....87½&10%
R. H. Blued Steel.....85&5%
F. H Jap'd Steel.....82½&5%
F. H. Brass .....85&5%
R. H. Brass .....80&5%
R. H. Nickel Plated.....75%

SCYTHES.

Clipper, grain.....per doz..$9 25
Dutchman, grass ..... " .. 6 00
Golden Clipper, grass. " .. 5 50
U. S. A., grass..... " .. 7 00

SETS.

Nail.
Round, common.....per doz..$0 33
Square " ..... " .. 42
Octagon " ..... " .. 33
Square, Buck Bros.. " .. 1 25
Cup Point, knurled, pr doz.70c@$1c
Rivet.
Farmers'.....per doz..$1 45
Tinners'.....50&10%
Saw.
Aikin's Pattern.....per doz..$3 50
Common Lever. ..... " .. 1 20
Disston's Monarch... " .. 6 50
" X Cut ..... " ..11 75
German..... " .. 1 35
Morrill's Old Style... " .. 5 00
" Pattern.... " .. 4 50
Leach's..... " .. 4 80
Nash's Hand..... " .. 4 00
" X Cut ..... " .. 5 50
Stillman's Lever..... " .. 1 30
" X Cut..... " .. 2 50

SHARPENERS--SKATE.

Diamond..... per doz..$1 60

SHAVES--SPOKE.

Iron.....per doz..$1 35@$2 75
Wood..... " .. 2 75@ 4 75
Bailey's .....50&5%
Goodell's.....15%
Stanley's Universal.....30&5%
Pruning. SHEARS.
Buckeye, No. 1.....per doz..$6 50
" No. 2..... " .. 8 50
California Pat., 9 in.. " .. 4 25
" 10 in.. " .. 5 00
Draw Cut, No. 3..... " ..15 50
" No. 4..... " ..18 50
Henry's Pat. 0 01 14 012
Per doz...$1.90 $2.50 $3.15 $3.50
Star.....per doz..$4 75
Sheep--No. BBA.
6 in. 6½ in. 7 in.
Reg.Grip..$11.00 $11.25 $12.00 doz.
Nar.Grip.. 11.20 11.00 12.15
Tinners'--See Snips.
SHEAVES—SLIDING DOOR.
In. 3 4 5
Common..Per set..$0.42 $0.48 $0.70
Hatfield's. " .. .75 1.00 1.60

SHELLERS--CORN.

Union .....per doz..$7 25

SHOT--See Ammunition.

SHOVELS AND SPADES.

Drain.
Iwan's Perfection.....50%
Railroad, Etc.
Gold Hibbard's.....per doz.. $9 25
C. H. Conovers's.... " .. 7 75
Beckwith's..... " .. 7 75
Hickory..... " .. 6 25
Greenleaf's ..... " .. 5 75
Columbus..... " .. 5 00
Ames' new list .....Discount 12½%
Coal.
No. 2 Ajax.....per doz..$5 25
No. 4 Golds..... " .. 6 25
Ames' new list.....Discount 12½%

SIEVES.

Champion.....per doz. $ .90
Hunter's Genuine..... " 1.10
" Imitation..... " .90
Tin Rim, 16 mesh plain wire" 1.35
Wood " 16 mesh plain wire" .80

SINKS.

Cast Iron.
Painted.....50%
Enameled, White ....60&10%
Wrought Steel.
Painted, new list.....40-10&5%

SLEDGES--See Hammers.

SNAPS--HARNESS.

Champion.....65%
German Pattern.....30&5%
Judd's Pattern .....60&10%@70%

SNATHS.

Double Ring, Bush....per doz..$6 50
Patent Loop " .... " .. 7 00
" " Brass.... " .. 6 25

SNIPS--TINNERS'.

Hernisch's.....40&5%
National .....40&5%
P. S. & W. Co.'s.....25&5%

SOLDER.

See Metals, Column 1

SPRINGS--DOOR.

Perfect. Nos. 1 2 3 4
Per doz..... 32c 38c 45c 48c
Reliance, Light $1.40, Heavy $2.20 doz.
Star..... " .90, " 1.30 "
Torrey's.....per doz..$1 35
Warner's— No. 1 No. 2
Per doz..... 72c $1 45

SQUARES

Steel and Iron 70%
(Add for Bluing, $2.50 per doz., net.)
Mitre--Stanley's No. 12 .....40%
Try.
Stanley's No. 20, new list...30&10%
" Nos. 12 and 14.....40%
Try and Bevel--Stanley's.....40&5%
Try and Miter.
Fox's.....per doz..$7 25
Winterbottom's 50%

SQUEEZERS--LEMON.

Common Wood.....per doz..$0 72
Porcelain Lined, wood. " .. 1 30
Boss, tinned iron ..... " .. 84
Pearl, nickel plated... " .. 1 30
Star " " ..... " .. 1 60
Little Giant, tin'd iron " .. 4 25
King..... " .. 2 50
Drum ..... " .. 4 50

STAPLES.

Blind—Barbed .....per lb. 9½@10c
Butter Tub..... " 8@8½c
Fence, less than carload.
Polished.....per 100 lb. $2 40
Galvanized ..... " 2 80
Netting—Galvanized.....per keg 3 60
Wrought.
Wrought Staples, Hasps and Staples, Hasps, Hooks and Staples, and Hooks and Staples ..... 85-10&5%
Extra heavy .....75&10%

STEELYARDS.

Discount 25%

STONES.

Axe.
Hindostan .....per lb. 5½@7c
More Grit..... " 9½c
Washita ..... " 16½c
Emery.....60%@60&5%
Oil—Unmounted.
Arkansas Hard .....per lb. $2 00
Arkansas Soft ..... " 1 15
Hindostan ..... " 6½@6½
Lily White..... per lb 43c
Queer Creek..... " 14½c
Ouachita..... " 36c
Washita..... " 25c
Sythe.
Black Diamond.....per gro. $7 75
Clear Grit ..... " 4 25
Gem Corundum..... " 7 50
Green Mountain..... " 4 20
La Moille..... " 7 00
Pikes Gen. No. 1, Ind. Pond., per gro 4 75
White Mountain.....per gro. 6 50
Willoughby Lake .... " 6 25
Red End ..... " 3 15

STOPS—BENCH.

Hotchkiss'.....per doz. $3 60

STOPPERS—FLUE.

Common .....per doz. 42c
Crown..... " 48c
Gem, flat, painted..... " 72c
Gem, cor'd, decorated.... " 68c
Kirch's ..... " $1 20
Peerless ..... " 72c
Skinner's Common Sense " 95c

STRAPS.

Scoop .....per doz. prs. $1 80
Skate..... " " 60@70c

STRETCHERS.

Carpet.
Bullard's .....per doz. $3 90
Excelsior ..... " 5 50
Malleable Iron..... " 70
Perfection ..... " 6 00
King ..... " 4 50
Wire.
N. S. Elwood's .....per doz. $5 75
O. S. Elwood's..... " 5 75
Little Giant ..... " 5 50
Star Lever..... " 6 25
Star Tackle Block..... " 9 25
Warner's ..... " 6 25

SWIVELS.

Malleable Iron .....per lb. 6½c
Wrought Steel.....per gro. $4 50

TACKS.

American Cut.....90&5%
American Wire.....85&25&10%
Bill Posters Cut ....90&40%
Blued Carpet.....90&15%
Tinned Carpet.....90&15%
Gimp .....90&30&10%
Upholsters' Cut .....90&40&5%
Upholsters' Wire .....90&25%
Double Pointed .....90&20%
Copper .....per lb. 27c
Canvas Nails.....75&5%
Clout Nails.....75&10&5%
Hungarian Nails.....80&5%

TAPES--MEASURING.

Asses' Skin .....40&10%
Bend Leather.....25%
Patent Leather.....25%
Lufkin's Steel.....30%
Lufkins Metallic 30%

TENTS AND PAULINS.

Wall Tents 50%
Wedge Tents .....50&5%
Paulins 45%
Wagon Covers.....45%

THERMOMETERS.

Tin Case.....per doz., 95c@$1 25
Wood Back..... " $1 75@ 9 00
Glass ..... " 15 50

TIES.

Bale.
Single Loop..... 90&10%
All other kinds.....70%
Cow--See "Chains."

TONGS.

Crimping—Packham's...per pair 50c
Gutter—P. S. & W. Co.'s. ....15&10%
Pipe—Brown's 50%
Roofing—P. S. & W. Co.'s ....15&10%

TOOLS—SAW.

Atkin's Dexter.....per doz. $4 25
Atkin's Excelsior..... " 6 25
Disston's Universal 40%
McDonald's 33⅓%

TRAPS.

Game.
Newhouse. 50%
New Victor 80%
Mole—Reddicks .....per doz. $5 75
Mouse and Rat.
Wood Choker.....per hole 10c
Tin Choker ..... " 11c
Delusion.....per doz. 85c
Imitation Sight, Rat .. " 80c
Marty Rat..... " $6 75
Marty Rat, Imitation.. " 3 75
Marty Mouse..... " 3 15
Marty Mouse, Imitation " 2 10
French Automatic..... each $3 60
Fly.
Balloon .....per doz. $1 10
Harper's..... " 1 25

TROUGH--EAVE.

Eastern..... Discount 75&16⅔%
Central. .... " 75&12½%
South Western.... " 75%
Missouri River.... " 75&12½%
Southern ..... " 75&12½%

TROWELS.

Brick.
Standard.....30%
Brade's.....10&7½%
Disston's.....30%
Rose's.....25%
Plasterers'.
Standard 33⅓%
Disston's.....30%
W. & McP.....25%

TRUCKS.

Bags.....each $1 70
Handy..... " 1 50
Warehouse.....60&5%

No.	1	2	3
Half Ironed.....	$2.60	$3.40	$5.00
Full Ironed.....	3.90	5.75	6.75

TUBS-WASH.

	No. 3	2	1	Ex. large
Standard, per doz.	$5.25	6.25	7.25	9.75
Dowel ..... "	5.60	6.60	7.50	10.00
Cedar .... "	6.50	7.50	8.25	
Indurated. "	7.20	7.95	9.45	11.70

Galvanized.

	No. 1	2	3
Per doz	$5.50	6.00	6.75

VISES.

Bonney's.....30%
Cheney's 20%
Parker's Oval Slide.....50@50&10%
Parker's Parallel.....15@20%
Parker's Victor.....10%
Parker's Combination.....5%&10%
Solid Box.....50&5%
Adam's Mechanics'.....each $2 50

WARE,

Cast-Iron Hollow.
Ground .....40, 10&2½%
Unground .....50, 10&2½%
Extra Finished.....40%
White Enameled.....40&5%
Maslin Kettles.....65%
Enameled.
Adamant, one coat, 70&10%@75&10%
The manufacturers divide this ware into two classes, which take different discounts, noted above.
Chrysolite, three coat.....40&5%

WASHERS.

Leather. In. ⅜ 1 1⅛ 1¼ 1⅜
Nut, per C.....16c 17c 19c 25c 23c
Collar, per C...35c 40c 40c 43c
Wrought Iron.
In. ¼ 5-16 ⅜ ½ ⅝ ¾ to 1
Per lb...9c 8c 6⅞c 5½c 5c 4⅜c
Wrought Steel.
In. ¼ 5-16 ⅜ ½ ⅝ ¾ to 1
Per lb .10c 9c 7⅞c 6½c 6c 5⅜c

WEDGES.

Ax.....per doz.. 30c
Galling .....per lb..10½c
Saw..... " .. 8⅜c
Wood Choppers.
Lake Superior and Oregon.
Pat .....per lb.. 9⅜c
Reg. Pattern, Steel... " .. 4 c
Truckee " " .. 4½c

WEIGHTS.

Hitching.....per lb..2⅜c
Sash--F.O.B. Chicago..pr ton..$27.00

WHEEL BARROWS.

Common Railroad....per doz..$16 00
Heavy " .... " .. 19 50
Railroad, ball bearing " .. 19 00
Santiago Steel Tray.. " .. 26 50
No. 04 Steel Dirt ... " .. 52 00
No. 04½ " " .... " .. 56 00

WHEELS.

Corundum.....70&10&5
Emery.....75&5%
Well. In. 8 10 12 14
Per doz.... $1.90 $2.20 $3.00 $5.50

WIRE.

Barbed.	Painted.	Galv'd.
Carloads...pr 100 lbs..	$2.50	$2.80
Less than car " ..	2.60	2.90

Brass.
In coils.....20%
In 1 lb. spools, new list.... 50&10%
Broom--Tinned.... ....60&10&10&10%
Cable—Same price as Barbed Wire.
Copper.
In coils.....20&10%33⅓%
In 1 lb. spools, new list.....50&10%
Fence--Smooth.
Nos. 6 to 9, Annealed, pr 100 lbs. $2.10
Nos. 6 to 9, Galv'd... " 2.20
Hair--New list.....50&10%
Market.
Bright, full bdles.....70&10%
Bright, broken bdles.....70%
Coppered, full bdles.....70%
Coppered, broken bdles ....65&10%
Tinned, full bdles..... .....70&5%
Tinned, broken bdles.....65&10%
Picture.
In coils.....80% @80&10%
In 5 lb. spools .....per lb. 20c
Plain—Small lots.....$2.00
Car lots..... ... 1.95
Small spools 5c per hundred higher

WRENCHES.

Acme Standard.....60%
Alligator .....65&5%
Always Ready.....40&10&5%
Bemis & Call.....40%
Coe's Standard..... .40&10%
Girard's Agricultural.....75%
P. S. & W. Co.'s Agricultural....75%
" " Knife H'dle..50&5%
Wescott's "S".....33⅓%
Malleable.....per lb. 6½c
Stillson Pipe .....60&5%
Trimo " 60%

WRINGERS.

Clothes.
Nos. 22&110, Guarantee, pr doz. $28 00
No. 150, Sunshine ..... " 18 00
No. 130, Mendota..... " 18 00
No. 12, Success..... " 16 00
Blue Bell, Ball Bear'g. " 25 00
No. D 110, Domestic... " 22 50
No. E 300, Empress ... " 25 50
No. 132 Bicycle Ball-b aring..... " 27 00
No. 142, Swan ..... " 27 00

Wants and Sales.

For yearly subscribers to THE AMERICAN ARTISAN will be inserted under this head advertisements of six lines WITHOUT CHARGE for employers wishing to secure employes, persons seeking situations, parties desiring to purchase a business, businesses for sale, partners wanted, to exchange, etc. Those who respond to these announcements will please mention that they read the advertisement in THE AMERICAN ARTISAN.

BUSINESS CHANCES.

PATENTS HUBERT E. PECK, 623 F St., N. W., Washington, D. C. Consulting Expert in Patent Causes. U S. and Foreign Patents. Send for leaflet on "Rejected Patent Applications." Honest work but no "Something for Nothing" offers.

Ohio farm to exchange for country hardware; $2,500. G. B. Allion, Swanton, Ohio. 5

2,000 lbs. S. & D. standard twine for sale free on board cars of either of the following roads: C., M. & St. P., C., N. W. Ry., I. C. R. R., at 11c cash. J. H. Alpinger, Kingston, Ill. 5

For Sale—$3,500 stock of hardware store and tinware, tinners' tools and tinners' stock; situated in good town of 1,200 inhabitants; good reason for selling. Address "Box 103," care American Artisan, 69 Dearborn street, Chicago, Ill. 5

For Sale—At once, clean stock of hardware, stoves, furnaces; fine fixtures; best location in Chicago; invoice about $10,000; sells $30,000. Address "Fixtures," care of The American Artisan, 69 Dearborn St., Chicago, Ill.

For Sale—One thousand to 2,500 shares in an incorporated sheet iron and furnace company in one of the best cities in Colorado; a paying enterprise needs help to carry out its contracts. Capital stock, 5,000 shares; par value $1.00 per share. The right man can secure position with the company; references required and given. Address "Stock Company," Care of The American Artisan, 69 Dearborn St., Chicago, Ill. 4

For Sale—At once, clean stock of hardware, stoves, furnaces; fine fixtures; good location; invoice about $10,000; sells $30,000. Address "Fixtures," Care of The American Artisan, 69 Dearborn St., Chicago, Ill. 4

For Sale—Well established pump business and tinshop in a county seat of 2,500; a rare chance for good tinner or plumber; can buy business outright for half interest. Address Felix Rosch, Glenwood, Iowa. 4

For Sale—A clean stock of hardware, stoves and tinware; also good tin shop. In Illinois city of 6,000. Will sell for cash and give a good discount. Address "Bargain," Care of The American Artisan, 69 Dearborn St., Chicago, Ill. 4

Business for Sale—Stock invoices $3,000. Can buy or rent building; would prefer to sell. Cause, sickness; must change climate. Located 55 miles from Chicago in heart of dairy district. For further particulars address "E. P. B.," Care of The American Artisan, 69 Dearborn St., Chicago, Ill. 4

For Sale—Good paying stock of hardware that will invoice $12,000; located in one of the best towns in northern Illinois, population 16,000; railroad center and manufacturing town, with good surrounding country. Address "Center," Care of The American Artisan, 69 Dearborn St., Chicago, Ill. 4

For Sale—Set of tinner's tools, and will give 40 per cent list, including 3 good benches, free of charge, if all the tools are taken. Write for list. Ullery & Jones, Gibson City, Ill. 4

Wanted—Factory lines of Cutlery, Axes and Enameled Ware, by two men of long experience in the hardware business, at present representing two of the largest jobbers in the country. Address "Hardware Man," care of The American Artisan, 69 Dearborn St., Chicago, Ill. 4

Ten Dollars Reward—For a tinner; one who is steady and willing to work; steady job and good pay; the tinner gets the reward. Write us. Carpenter & Mather, Stanley, Wis. 3

For Sale—My stock of hardware; located in best part of central Illinois; will invoice about $3,000 to $4,000; building also for sale, 90x22, two-story brick, with basement, living rooms and tinshop upstairs. Address Box "H. K.," care of The American Artisan, 69 Dearborn street, Chicago, Ill. 3

For Sale—Good paying hardware store; only two stores here, with over 3,000 inhabitants; owner is president of a bank and has too much business to attend to it; be sure to write for particulars. Address A. W. Courchaine, Port Clinton, O. 3

For Sale—Well established tin shop in county seat town of 2,500; a rare chance for good tinner or plumber; can buy the business right out or half interest. Address Felix Rosch, Glenwood, Iowa. 3

For Sale—Our entire stock of Hardware, Stoves, Tinware and Tinners' Tools. Situated in one of the best towns in Iowa. Two main lines of railroads. Population 1,200; city water and electric light. Stock will invoice $4,000 or less; sales run from $8,000 to $11,000. Two-story brick building and basement, 30x60x14; elevator to all three floors. This is no trading stock—cash talks. Reason for selling, illness. Address F. Hesse & Son, Clarksville, Iowa. 3

Hardware and Tinshop for Sale.—First-class clean and up-to-date hardware stock in country town; will invoice about $3,200; cheap rent; low expenses. Splendid established country trade and no competition. Best of reasons for selling. This will bear all investigation. Address Box 15, Martelle, Iowa. 3

We have full line cornice makers' and slaters' tools that we will lease to a cornice man who has means to open up shop and can furnish good references. "H. W.," care of Klondyke Incubator Company, Des Moines, Iowa. 3

Have a good improved Iowa farm to trade for clean stock of hardware. Good location and business an object. Address Improved, care of The American Artisan, 69 Dearborn st., Chicago, Ill. 2

For Sale—Tin shop, with small stock of hardware, pumps, pipe and pipe fittings; also pipe fitting tools. No competition. Good town with large country resources. Address Horace P. Jones, Whitehall, Mont. 2

For Sale—A $5,000 stock of hardware and farm machinery in a southern Minnesota city of 1,500 inhabitants; good reason for selling; will rent building. Address "1500," care of The American Artisan, 69 Dearborn st., Chicago, Ill. 2

TINNERS' TOOLS.

Wanted—A set of tinners' tools; must be cheap. Chas. Hodik, 469 Grand ave., Chicago, Ill. 5

Set of Tinners' Tools for Sale Cheap—Must be sold quick. For list of same and prices address Bresnohan, 111 Galena Ave., Dixon, Ill. 4

Elegant Sherman tandem for sale cheap. T. E. Copelin, 51 N. State st., Chicago. 2

Wanted—Hand threading machine; second-hand, to cut from 1 to 3 in. pipes. F. L. Roy, Darlington, Wis.

HELP WANTED.

Wanted—A good tinner and clerk at once; steady job; he must be sober, honest and industrious; good wages to the right man; write state wages and give reference; do not answer unless you mean business. Thos. Rawlings, Wakefield, Neb. 5

Wanted—First-class tinner; steady work and good wages for right man; in answering state age, whether married or single, length of time at trade and send references. Hall Bros. Co., Lincoln, Neb. 5

Wanted—At once, good all-around tinner. Address M. R. O'Neill, wholesale and retail hardware, 67 Broadway, Fargo, N. D. 5

Wanted—Good salesman for calling on stove trade; can learn of a profitable side line by addressing A. B. C., Care of The American Artisan, 69 Dearborn St., Chicago, Ill. 4

Wanted—For good steady job during the winter, an experienced tinner; good on inside and outside and furnace work; wages paid accordingly. Address Chris Eckard, 721 Second St., Alton, Ill. 4

Wanted—At once, competent, reliable tinner; steady job. Ray Bros., Belvidere, Ill. 4

Wanted—Good tinner. Write E. C. Williams, Waupaca, Wis. 4

Tinner Wanted—Sober, reliable, all-around tinner for furnace, guttering and general job work; good wages and permanent position. Address Chas. M. Brooks, Moweaqua, Ill. 4

Wanted—Salesman, calling on hardware and stove trade to handle full line of medium priced stoves and ranges; liberal commission. B. S. Co., 859 Rose Bldg., Cleveland, O. 4

Tinner Wanted—Sober, steady and experienced, who can handle country shop. Write quick, stating wages and particulars. Thos. E. Morgan & Co., Starkweather, N. Dak. 4

Wanted—At once a good, first class tinner for inside and outside work; must have some knowledge of furnace work and hot water heating. Kundert & Fitzgerald, Madison, S. D. 4

Wanted—A strictly A1 sheet metal worker. None other need apply. James Clements, East Chicago, Ind. 4

Wanted—Lines for eastern trade. Writer makes four trips a year; make large cities and selling department store, jobbing and railroad trade. Address "Trips," care of The American Artisan, 69 Dearborn st., Chicago, Ill. 4

Wanted—Good all round tinner and furnace man. Steady work and good wages. J. D. Green, Urbana, Ill. 4

Wanted—Experienced tinner who understands outside and inside work; must be able to do furnace work. Good wages and steady employment. H. C. Wienecke, Glencoe, Ill. 4

Wanted—Man who can do outside job work, such as eave-spouting, roofing, furnace work, steam heat or hot water and plumbing. Must be able to wipe a good joint, and strictly sober. Steady job to right man. Address Box "M. L.," Care of The American Artisan, 69 Dearborn St., Chicago, Ill. 4

Would like to correspond with a man that can do outside job work, such as eave spouting, roofing, furnace work, steam heat or hot water, and plumbing, a man that can wipe a good joint and strictly sober. Might put an ad in to that effect and have them address to American Artisan. If it is the right man can have steady job. J. G. Widmann, Prairie du Chien, Wis. 4

Salesman—To sell wire fence to the trade; must be experienced; salary. Address Box 1632, Iowa City, Ia. 3

Tinner Wanted—At once, who understands roofing, spouting and general repairing, and one who is capable to help in store and putting up farm machinery, pumps and windmills; steady employment for the right man the year round; must be sober; state wages and experience. Ben Morris, Memphis, Mo. 3

Wanted—Stove salesman for Iowa and Nebraska and Indiana; to travel on commission. Address "Box 93," care of The American Artisan, 69 Dearborn street, Chicago, Ill. 3

A tinner wanted at once for country town work; good wages. Litchfield Bros., Libertyville, Ill. 3

Wanted—A tinner at once; one that has some experience in putting up furnaces and handy in store; answer at once. Address Redfield Hardware Co., Redfield, S. D. 3

Wanted—A good tinner and slater; must be sober and reliable for permanent situation with good wages. Address Jacob Schlosser, 207 Court street, Hamilton, Ohio. 3

Wanted—A hustling young man to manage an up-to-date established stove, tin and hardware store in northern Kentucky; one who will invest about $1,000 to $3,000; good opening to add furniture, etc.; have $10,000 invested in stock and building. Address "Hardware, 253," care of The American Artisan, 69 Dearborn street, Chicago, Ill. 3

Wanted—At once, an experienced hardware clerk; state wages expected, and how long worked at hardware business. Address "Clerk," care of The American Artisan, 69 Dearborn street, Chicago, Ill. 3

Wanted—Two good, sober, reliable tinners; steady work at good wages. Apply at once. George Dast, 151 N. 3d street, Hamilton, Ohio. 3

Experienced tinner and furnace man wanted; highest wages paid. T. A. Warren, box 507, Edgerton, Wis.

Wanted—A first-class tinner and furnace man to take charge of shop; steady work year round. Highest wages paid for first-class man; one who can talk German preferred; others not barred. Write at once Webster, Cook & Co., Mitchell, S. D.; state wages. 2

SITUATIONS WANTED.

Wanted—Position with some hardware store as clerk, bookkeeper and stockkeeper; 15 years' experience in the hardware line; have my own typewriter for office work; a hustler and a good salesman. For such a man address, Hustler, care The American Artisan, 69 Dearborn street, Chicago, Ill. 5

Position Wanted—A middle-aged man, 36 years, married, 22 years in hardware and kindred lines, wishing to make a change, seeks a situation as salesman on floor, road or manager of branch; is a hustler, with plenty of ability; speaks three languages and can sell goods; gilt-edge references as to character, habits, etc. Address "Change," care The American Artisan, 69 Dearborn street, Chicago, Ill. 5

Position Wanted—On the road with reliable jobber or manufacturer in the plumbing, pump or pipe line. Married and have good habits and experienced. Can give best of references. Address "Box 97," care The American Artisan, 69 Dearborn street, Chicago Ill. 5

Wanted—Position in hardware store as clerk and bookkeeper, 15 years' experience in the hardware line. Address "Hustler," Care of The American Artisan, 69 Dearborn St., Chicago, Ill. 4

Situation Wanted—With hardware and furniture store by married man, 32 years old. Don't drink, chew, smoke or gamble. Can furnish good references. Five years' experience in tin work. Can make air-tight stoves and mirrors. Handy with paint brush and willing to do any kind of work around store. Address "J. W. B." Box 76, Kempton, Ind.

Position Wanted—On the road with reliable jobber or manufacturer in the plumbing, pump or pipe line. Married and have good habits and experienced. Can give best of references. Address Jacob M. Newston, Hoopeston, Ill.

Wanted—Position, by young man as clerk or bookkeeper in a retail or hardware store; can give good recommendations. Address "S. L.," Care of Campbell Hardware Co., Campbell, Neb. 4

Wanted—Position in retail hardware store in a town of 1,000 or more population by a young man with two and one-half years' experience. Can take care of the books, corresponding, and can do some tinning, spouting, etc. Address, stating wages, C. A. P. K., Box 251, Dyersville, Iowa. 4

Wanted—A position as manager or traveling salesman for a hardware store in western territory; first-class references. Address A. B. Hill, 1820 California street, Denver, Colo. 3

SPECIAL NOTICES.

HIGH GRADE RAILROAD, PLUMBING, PAVING, MASONS AND

ROOFING TOOLS

Gravel Roofers' Scratching Bar.

A. W. ISELE & SON, Boston, Mass.

LANDS FOR SALE or will EXCHANGE

In the Dakotas, Minnesota, Manitoba and Iowa. Stocks of Hardware, General Merchandise, and Impliments, also good clear Town and City Property taken in EXCHANGE as part payment for these LANDS. State full particulars in first letter, and address

DUNDEE LA D LOAN & EXCHANGE CO.,
2t-5 DUNDEE, MINNESOTA.

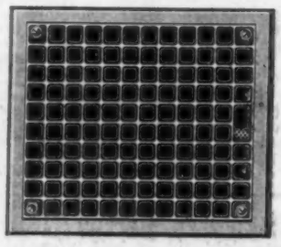
FOR SALE.

A good plumbing, tin and electric light business in one of the best towns of 4,000 population in Northwestern Iowa. A good opportunity for a hustling plumber; good reasons for selling; stock and tools invoice about $2,500. Address all communications to 210 S. 6th Street, Estherville, Iowa. 5

FOR SALE

Clean Stock of Hardware, Stoves and Tinware. Will invoice from $3,500 to $3,000. Good county seat town of 1500 population. We want to devote our time to outside work. Have contracts amounting to $2,000 on hand at present. Will sell both if wanted. 4t-1

W. A. GEPHART, St. Clairsville, Ohio.



A Marvelous Advance

In register making has reached its climax in the Hart & Cooley Steel Floor Registers, Face Plates and Borders. Each wrapped and packed separately in pasteboard boxes. Points of superiority are so evident that mention of them seems unnecessary, but they include a saving in freight and breakage and no shop worn goods. They will not break or warp. Any finish and metal may be had. The Black and White Japanned Finishes on these registers is perfection itself.

Write us about them.

NORRIS & LORING HARDWARE CO. Exclusively Wholesale, **Cedar Rapids, Iowa.**

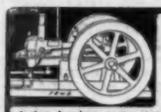
SALESMEN WANTED!

Good Salesmen calling on the stove, hardware and furnace trade can learn of a profitable side line by stating trade called upon and territory covered and addressing "RAD," care The American Artisan, 69 Dearborn Street, Chicago, Ill. 4t-2

HELP WANTED

Salesmen calling on the hardware or general store trade in the mining districts to handle our "Diamond" Miners' Belt Oil Can as a side line on commission. For sample and price list address

26 COONEY & GEIGER, Indianapolis, Ind.



WEBER JR.
Gasoline Engines

are the outgrowth of 19 years of engine building. Not approached for strength, safety, simplicity or width of duty. Valuable for a score of farm duties. Any boy can run them. 2½ full horse power at less than 5 cts. per hour. Tested and ready for action upon arrival. Made to fit farmers' needs. Other sizes up to 300 h. p. Write for free catalogue.

WEBER GAS & GASOLINE ENGINE COMPANY, Box 225, Kansas City, Mo.

SEE THAT PEERLESS TIE?

WE MANUFACTURE PEERLESS WOVEN WIRE FIELD FENCE, POULTRY & GARDEN FENCE, ACME NETTING, LAWN AND CEMETERY FENCE, GATES, PORTABLE CORN CRIBS, ETC. ETC. CATALOGUE FREE.

THE DENNING FENCE WORKS
CEDAR RAPIDS, IOWA.

PATTERN LETTERS
WE HAVE THEM
SIZES, ONE EIGHTH TO TWO INCHES.
ROMAN, ROUND FACE GOTHIC, SHARP FACE GOTHIC, HAIR-LINE GOTHIC, FLATTENED FACE GOTHIC, ANTIQUE POINTED AND REVERSED
NAMOS FOR BRANDING IRONS.
ST. LOUIS ELECTROTYPE FOUNDRY
211 N. THIRD ST. ST. LOUIS, MO.

WANTED

Traveling Salesmen visiting hardware trade to handle line of high grade furnaces on commission.

The Forest City F'dry & Mfg. Co.

CLEVELAND, OHIO. 24

SHEET STEEL

75,000 Pounds—18 Gauge

American Bessemer Special

Manf. by
AMERICAN SHEET STEEL CO.
Under their copyrighted brand.

Oiled and under cover.
For sale at cost.
Immediate delivery.

SAYRE STAMPING COMPANY,
SAYRE, PA. 24

HOT WEATHER
—MAKES—
LOOSE SPOKES

Repaired in a minute with Monarch Clamps. You can put them on yourself.

10 CENTS.

C. W. HUGHES, Care Hoyt Metal Co. St. Louis, Mo.

O-RIB-O

WARE
BRISCOE MFG. Co.
DETROIT.

COLORS AND SPECIFICATIONS
(ILLUSTRATED)
PROTECTIVE PAINT FOR CONSTRUCTION AND MAINTENANCE OF STEEL AND IRON WORK
PUBLISHED FOR FREE DISTRIBUTION BY THE
Joseph Dixon Crucible Co., Jersey City, U.S.A.

WINCHESTER

Automatic .22 Caliber Rifle, Model 1903

AN ENTIRELY NEW RIFLE NOW READY

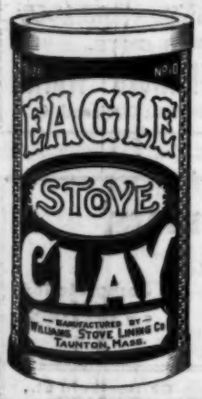
Its unequalled firing speed and ease of automatic operation make possible accurate aim of immediately successive shots.

The Winchester Model 1903 is a ten shot, AUTOMATIC, hammerless, take-down rifle. It is the only automatic rifle on the market and is adapted to a new .22 caliber rim-fire cartridge, loaded with smokeless powder and the Winchester Greaseless Bullet. It is graceful in outline, light in weight, certain in operation, simple in construction and has few parts. After filling the magazine and throwing the first cartridge into the chamber, all that it is necessary to do to shoot the ten cartridges that the rifle contains is to pull the trigger for each shot. Weight, 5¾ lbs. List price, $25.

Send for circular fully describing this rifle.

WINCHESTER REPEATING ARMS CO.,
NEW HAVEN, CONN.

NEW YORK STORE, 312 Broadway — *SAN FRANCISCO BRANCH, 127-135 First Street*



EAGLE STOVE CLAY

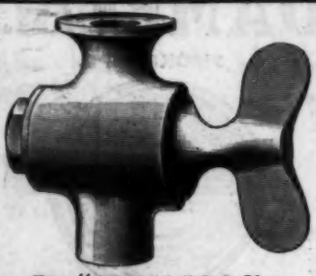
A plastic, durable fire proof mixture for making and repairing Linings in Coal Stoves, Furnaces and Ranges.

The quality is guaranteed—may be returned if not satisfactory.

Put up in attractive paste board boxes in three convenient sizes with full directions on each.

MANUFACTURED AND FOR SALE BY

WILLIAMS STOVE LINING CO., Taunton, Mass.



The "OMEGA," 2-3 Size.
To attach to bottom of can.

BEER,
MILK CAN,
OIL CAN,
CREAM SEPARATOR

FAUCETS.

Various Sizes and Styles.

MANUFACTURED BY

CLARK NOVELTY CO.,
ROCHESTER, N. Y.

Also Mfrs. of The CLARK Kerosene Oil System for heating Soldering Coppers.

"The trade journal is an advertising medium distinctly different from any other. It is read exclusively, or practically so, by people who are interested in the trade which it represents. The manufacturer who places an advertisement in a trade journal has the assurance that every copy is seen by people who could use his goods and who might become customers."

REPAIRS FOR ALL STOVES AND FURNACES

Stove Rods, Paste, Stove Putty.
Stove Knobs, Pipe Dampers, Mica, Etc.

Wm. T. Dust Co., Detroit.

REPAIRS FOR ALL STOVES AND RANGES.

A. G. BRAUER, 316-318 NORTH THIRD ST ST. LOUIS MO.

Leading Stove Founders give Kelly's Facings preference. There is a reason—you can be assured of the same uniform treatment. No order too large for prompt shipment; no order too small but will receive best attention.

Most successful stove founders use our Heavy Stove Plate Facings and Kelly's Prepared Charcoal as a return facing. If you want to compete with these use our facings. The improvement in appearance of castings warrants your giving our facings a trial.

We import our Plumbago direct from Ceylon, saving middlemen's profits and guaranteeing genuineness.

T. P. KELLY & CO.

MANUFACTURERS OF BLACK LEADS, FOUNDRY FACINGS, SUPPLYS, ETC.

544-546 West 22nd St. NEW YORK.

CHICAGO OFFICE: 36 EAST HURON STREET.

MILLS IN NEW JERSEY, PENNSYLVANIA, ILLINOIS

UNCLE SAM DAMPER! THE PIONEER STEEL DAMPER

FURNACE PIPE DAMPER.

The handle is enameled wood, will not heat, rigidly clamped and cannot come off. The spring is not affected by heat. The stem is a steel rod, all one piece and nothing to fall apart; pointed and easily driven through the pipe. The Damper Plate is made of cold rolled pickled steel, corrugated to stiffen it and to prevent warping. We call special attention to lightness and strength of these Dampers and their desirability for **FURNACE** pipes.

"The Difference in Weight Pays the Freight."

Ask Your Jobber for the "UNCLE SAM."

SAYRE STAMPING CO., Sole Manufacturers, **SAYRE, PA.**

Champion Stove Clay

The only Stove Lining made of crucible materials.
Packed in 2½ lb., 6 lb. and 10 lb. pasteboard boxes and also in bulk.
Order it from your jobber.
The best and most refractory lining made.

Bridgeport Crucible Co.

BRIDGEPORT, CONN.

The Milwaukee Pattern Works

Sketches and Designs for

STOVE AND HEATER WORK OF ALL KINDS.

Correspondence Solicited.

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Weller Stove Pattern Co.

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QUINCY, ILL.

The GEO. W. COPE STOVE PATTERN WORKS

Cor. Brush & Woodbridge Sts.

DETROIT, MICH.

DO YOU WANT **STOVES AND HEATERS** that are easily sold and STAY SOLD. We have been very successful in designing patterns for such.

The Gobeille Pattern Co.

CLEVELAND, OHIO.

PATTERNS

FOR

STOVES—RANGES—FURNACES

SEND FOR CUTS.

Mersfelder Pattern Works

Pearl and Ludlow Sts., Cincinnati, O.

100 Tinners' Patterns

Complete for ... $1.00

Sent Postpaid on Receipt of Price.

DANIEL STERN, 69 Dearborn St., CHICAGO.

THE YANKEE (IMPROVED ALL STEEL) DAMPER.

HOT AIR.

THE YANKEE EXCELS.

Above All—Cheapness—a dealer cannot possibly make dampers as cheaply as we sell the Yankee. Easily put in and taken out of pipes. Stiffest, quickest-working and neatest damper on the market.

It is impossible for this rod when in position to move either way.

ROD POINTS: Has wood enameled handle. Wood handle cannot come off. Washer and spring cannot fall off the rod. Same size of holes are punched on each side of pipe. Rod is made of ¼ in. cold-rolled steel and slips into damper very smoothly. **Sample sent to any Dealer without charge.**

SMOKE PIPE.

The S. M. HOWES CO., Manufacturers, 40-46 Union St., Boston, Mass.

BLACK SILK STOVE POLISH

IT IS BLACK

Has been sold to the trade since 1884. and has never changed its name.

IT IS GOOD

NOT SOLD TO DEPARTMENT STORES OR MAIL ORDER HOUSES, BUT ONLY THROUGH REGULAR JOBBING AND RETAIL TRADE WHOSE ORDERS ARE SOLICITED.

MFG. BY THE BLACK SILK STOVE POLISH WORKS
STERLING, ILL.
LEWIS D. WYNN, PROPRIETOR

OUR LATEST—NO. 460.

Standard Oven Thermometer

Send for Sample.

HELIOS-UPTON CO., PEABODY, MASS.

Or HENRY GLEASON, Agent, 258 Broadway, New York

Polishers and Platers Supplies

EVERYTHING FOR POLISHERS and PLATERS.

Tripoli Composition (all grades)
No. 5 English Crocus (the very be t)
Silver Finish (in cans)
Turkish Emery
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Cotton Buffs
Spanish Felt Wheels
Canvas Wheels
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F. B. STEVENS (Maker of the Best)
DETROIT, MICH.

U.S. INFALLIBLE METAL POLISH

IN PASTE, LIQUID OR POWDER

FOR ALL KINDS OF METALS

Best, Cheapest, Goes Farthest. Never dries up or shrinks. Money makers for everybody. Sold by the jobbing trade. Sample free by mail. Address,

GEO. W. HOFFMAN, Manufacturer
295 E. WASHINGTON ST., INDIANAPOLIS, IND.
BRANCHES
1 Park Row, NEW YORK CITY
119 E. Madison Street, CHICAGO, ILL.
508 Montgomery Ave., SAN FRANCISCO, CAL.
Established 12 Years

BURTON'S FUEL ECONOMIZER

Attached to a stove pipe saves more fuel and radiates more heat than any other stove pipe attachment

AN EASY SELLER.

Assertions Backed by Guarantee.

The W. J. BURTON CO., Detroit, Mich.

Little Journeys.

Little Journeys to lake resorts and mountain homes will be more popular this summer than ever. Many have already arranged their summer tours via the Chicago, Milwaukee & St. Paul railway and many more are going to do likewise. Booklets that will help you to plan your vacation trip have just been published, and will be sent on receipt of postage, as follows: "Colorado-California," six cents. "In Lakeland" and "Summer Homes," six cents. "Lakes Okoboji and Spirit Lake," four cents.

F. A. MILLER, General Passenger Agent, Chicago.

It Will Pay You

to illustrate your advertisements in your local papers. A sheet of comic advertising cuts sent on application

These cuts are furnished with catchlines showing their application to the hardware, stove and tinners' trades.

Address

DANIEL STERN
69 Dearborn St., - CHICAGO

Will Fit Any Flue

From 5 to 7 Inches.

THE GLOBE FLUE STOP

Brass Finish and Nicely Decorated, in fact the neatest, and best selling flue stop for live dealers to handle.

Packed 1 doz. in a box.

Write to the factory direct as we employ no traveling salesmen.

STUBER & KUCK,
Manufacturers of Tinware and Specialties.
Peoria, Ill.

Advertising is the root of all money.

U. S. N. TRADE MARK. M.

ROOFING TIN

MADE BY THE **MF** PROCESS.

The **MF PROCESS** of manufacturing roofing tin originated in South Wales two generations ago; from that time to the present the product of the **MF PROCESS** has been the most reliable and hence the **MOST FAVORED.**

Recently the **NEW METHOD** by which terne plates are finished in a manner that gives further protection against corrosion has been combined with the **MF PROCESS.** The result of this combination is the **U. S. EAGLE N. M.**

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AMERICAN TIN PLATE CO.

BATTERY PARK BUILDING, NEW YORK, N. Y.

MARQUETTE BUILDING, CHICAGO, ILLS.

We are the Largest Manufacturers of Corrugated Iron and Steel in the Country.

Let us quote prices and send catalogue.

We also manufacture

Eaves-Trough, Conductor Pipe and Gutters.

Structural Iron Work.

The Garry Iron & Steel Co.

Cleveland, Ohio.

Manufacturers ROOF PAINTS AND MORTAR COLORS

SEEGER'S

INVINCIBLE RAIN WATER FILTER AND STRAINER

Made of galvanized iron, 26 inches high, 12x14 inches wide. Can be taken apart with ease. So constructed as to prevent worms, bugs, leaves and dirt getting into your drinking water.

Doctors recommend it. Architects specify it. Write for prices and territory.

CHAS. SEEGER,

BRIDGEWATER, SOUTH DAKOTA.

A No. 1 Fire Pot

has many advantages valuable to you. It is light, strong, easily carried, *produces a strong, blue blast flame* which is intensely hot, and will quickly heat heavy coppers or melt a pot of metal, *using less than half the gasoline* required by other makes, thus *saving you its cost in a short time,* to say nothing of the many other advantages possess d by it. Your nearest jobber will supply at factory price, or we will ship direct upon receipt of $6.00. *Your money back if you are not pleased.*

Our catalog is free.

Clayton & Lambert Mfg. Co.

DETROIT, MICH., U. S. A.

THE FRED. J. SWAINE CO.

PRESSES. DIES.

Rolls Seamers. Sheet Metal Tools.

1301 1309 N. 7TH ST. LOUIS, MO.

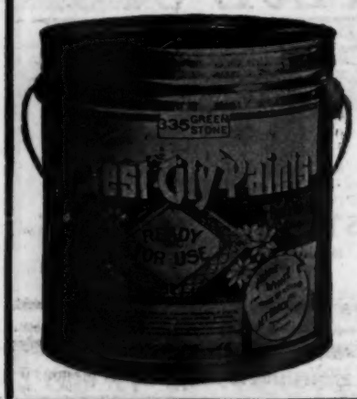
HOMESEEKERS EXCURSIONS

On FIRST and THIRD TUESDAYS in each Month to **VIRGINIA**

Via NORFOLK & WESTERN RAILWAY

For all information as to Rates and Tickets and for LAND PAMPHLETS and descriptive matter, address

ALLEN HULL, D. P. Agt., Columbus, Ohio



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In quality and price are the **Forest City Paints.** It has paid other dealers to handle them, why not you? Let us quote you?

THE FOREST CITY PAINT & VARNISH CO.

CLEVELAND, O.

Buckeye Brand

Should be in every high class dealers stock.

Buckeye Paint & Varnish Co.

TOLEDO, OHIO.

PLECKER'S CORRUGATED EXPANDING CONDUCTORS.

Made of Galvanized Iron in Ten-Foot Lengths without a Cross Seam. Will not burst when full of ice.

CLARK, QUIEN & MORSE, Peoria, Ill.

PATENT POLYGON PIPE

Can be furnished in either Galvanized Iron or Copper. It is made from galvanized iron in 10-ft. lengths, without a cross seam; from copper in 8-ft. lengths.

We can furnish regular Polygon crimped elbows made to match this pipe perfectly, or Fancy Stamped Elbows. Write us for catalogue.

AMERICAN STEEL ROOFING CO. MIDDLETOWN OHIO

JUST OUT

WRITE FOR CATALOG (FREE)

NEW 200-PAGE ILLUSTRATED

GENERAL CATALOGUE "B"

WRITE FOR CATALOG (FREE)

DESCRIBING

Eave Trough, Conductor Pipe, (Round or Square)
Wire and Steel Hangers, Conductor Hooks, Trimmings, Solder,

Galvanized Elbows, (Round and Square)
Cornices,
Ornamental Steel Ceilings (A Specialty)

Steel Roofing (All kinds), Brick Siding, Rock Face Stone Siding, Beaded Iron, Corrugated Iron, Tin Plate, Etc., Etc.

OUR ILLUSTRATED METAL CEILING CATALOG IS NOW READY

MILWAUKEE CORRUGATING CO., MANUFACTURERS. MILWAUKEE, WIS.

LA CROSSE STEEL ROOFING AND CORRUGATING CO., La Crosse, Wis

MANUFACTURERS OF

EAVES TROUGH, CONDUCTOR PIPE

Our make of goods the very best.
Send us your spring order.
Prices the very lowest
Prompt Shipments.

ELBOWS, MITRES, HANGERS, CUT OFFS, ROOFING AND SIDING MATERIAL.

YOUNG'S COMBINATION

STRAINER AND CUT-OFF

OPEN

Body in one piece; cannot break in two.
No levers or springs to break off.
A strainer perfect in construction which ejects all refuse.
All parts riveted and soldered.
Is practically indestructible.
Sold by all jobbers.

CLOSED

YOUNG MFG. CO., Bellevue, Iowa

Roofing Slate

All Grades Manufactured and Sold by

The AULD & CONGER CO.

CLEVELAND, O.

WRITE FOR PRICES,

Roofing Slate

SOME MORE BOOKS

A series of practical volumes with numerous illustrations.

"*Practical Draughtsman's Work*," 226 illustrations. This one contains many points relative to this line of work. $1.00 prepaid.

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Any of these books and all others of any line can be secured upon receipt of price, prepaid, by addressing

Daniel Stern, 69 Dearborn St., Chicago, Ill.

The supreme roofing plate of America is unquestionably

OSBORN'S GUARANTEED I C OLD STYLE

It is thoroughly good and honest in every respect, and our special hand dipped, palm oil process insures an even, rich coating and the maximum of serviceability.

There are no wasters sold under this brand.

THE J. M. & L. A. OSBORN CO.
CLEVELAND, OHIO

Why

not take Canton Metal Ceilings in your business as a side line? They will immediately become a source of profit and in time may become your main line. Easy to put up "because the construction is right." Made in a series of beautiful classified designs. Our art metal catolog is yours. Write for it.

The Canton Steel Roofing Co.,
CANTON, OHIO
New York Office:
157
W. 23d
St.

160 Perfect Elbow Patterns

Made in Two Sets on Heavy Blue Print Paper.

Set A, from 1 in. to 20 in., made in 2, 3, 4 and 5 pieces. 80 patterns, prepaid, $1.00.

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Sets A and B 160 patterns and Ebow Chart showing all the angles and degrees of same —prepaid, $2.50.

Price of Full set of Skylight Patterns $3.50
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Full set of Skylight and Elbow Patterns$5.00

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69 Dearborn Street,
CHICAGO, ILL.

SHEET METAL ARCHITECTURAL ORNAMENTS, STATUARY, ETC.

ART METAL CEILINGS

Roofing, Corrugated Iron, Galvanized Iron, Corrugated Conductor Pipe, Finials, Weather Vanes, Cresting, Etc., Sheet Copper :: ::

GALVANIZED STEEL TANKS FOR ALL PURPOSES.

FRIEDLEY & VOSHARDT, SEND FOR CATALOGUE A21
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O. C. Jamison, Homer, Ill., writes: "I FIND MY ADS. IN YOUR ESTIMABLE JOURNAL HAVE BROUGHT GOOD RETURNS."

We Are Headquarters

...for

Painted and Galvanized

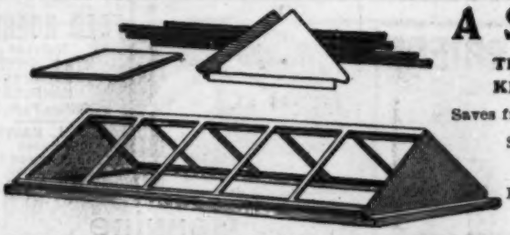
Corrugated Sheets

ROOFING and SIDING

Quick Shipments.

THE BERGER MFG. CO.

CANTON, OHIO



A SKYLIGHT

That can be Shipped KNOCKED DOWN..

Saves freight, saves cost of crating.

Saves troublesome repairs, and is guaranteed in every respect.

Let us send you our Skylight Booklet and quote prices.

THE GALESBURG CORNICE WORKS,
GALESBURG, ILLINOIS.

Edwin B. Stimpson & Son
31 SPRUCE ST. N.Y.
PERFORATORS OF SHEET METALS.

PERFORATED METAL
THE ROBT. AITCHISON PERFORATED METAL CO.
303-305 DEARBORN STREET, CHICAGO, ILL.

BERGER BROS., MANUFACTURERS OF

PIPE AND GUTTER. HEAVY GAUGES AND COPPER A SPECIALTY

BERGER BROS. CO.
Office and Store, 237 Arch St.; Warerooms, 100-02-04 Bread St.;
Factory, 3114-16-18-20 N. 17th St., PHILADELPHIA.

Learn to Wipe a Good Join

There can be no such a thing as failure for those who follow my instructions and methods in joint wiping. I guarantee to teach any man with ordinary intelligence in three to five weeks to wipe a tight, smooth joint. Those who have trouble in making first-class joints can become perfect. Do not neglect this opportunity to learn the most important part of your trade. Your standing as a workman depends upon the kind of a joint you make.

Full instructions by mail until you are satisfied with the work. Will return money if you fail to learn.

PRICE, $5.00

F. W. WHITE,
6th & Adams Ave., Charleston, Ill.

Compartment Sleepers
Standard Open Sleepers
Palace Parlor Cars
Table d'hote Diners
Luxurious Day Coaches

Are some of the many features of a trip over the

Big Four Route

CHICAGO to INDIANAPOLIS and CINCINNATI

Ask for Tickets via the "Big Four."

J. C. TUCKER, G. N. A.
238 Clark St., Chicago

COMING EVENTS CAST THEIR SHADOWS BEFORE

¶ Drop us a line—a letter—or just a request for catalogs and prices. Write nearest office.

¶ Whether you're a cross-roads dealer or a State St. merchant—more money is more easily made by selling our goods.

¶ Even if you don't order—you may learn something about the best Enameled Steel Ware and Tinware made.

NATIONAL
ENAMELING & STAMPING CO.

NEW YORK BALTIMORE
CHICAGO
ST. LOUIS NEW ORLEANS
MILWAUKEE

PATENT FOOD CARRIERS

PAT. JUNE 28, 1888
" MAY 6, 1902

F. G. O. EHLE CO.

Manufacturers of
EHLE PAT. DINNER PAILS
and LUNCH BOXES.

Send for our Catalogue. Prices quoted on application.

BUFFALO, N. Y.

FRED HOEHN
Maker of
MRS. POTTS' SAD IRON HANDLES
Clifton Park, O.
W. L. HARVEY
Agent
40 Dearborn St.
CHICAGO.

Write for our Printed Matter. It will interest you.

MORRILL'S "HERCULES" HAND PUNCH
PATENTED MAY 6, 1902.
MY TRADE ⊕M⊕ MARK ON ALL GOODS.

CHAS. MORRILL
271 Broadway, New York

Genuine
Hunter's Sifters

We are the sole manufacturers and there is no other Sifter made that has the reputation or is any comparison to the GENUINE HUNTER'S.

The only Sifter with a loose cap on the handle, so as to clean out the flour that accumulates in it while the Sifter is in use.

The Best in the World

Combined Mixer, Scoop, Measure, Dredger, Rice Washer, Pumpkin, Tomato, Wine, Starch and Fruit Strainer.

The Fred J. Meyers Mfg. Co.,
HAMILTON, OHIO

Louis O. Schuetz,
Evanston, Ill.,
writes:

"I thank you very much for putting my ad. in THE AMERICAN ARTISAN. I have a man now, and would like to have you cancel the ad., because we are getting letters from all parts of the country."

The Highest Type of American Cutlery

IS EXEMPLIFIED IN

QUEEN SHEARS

FARWELL, OZMUN, KIRK & CO.,

Wholesale Distributers. ST. PAUL, MINN.

The Paragon Cylinder Washer

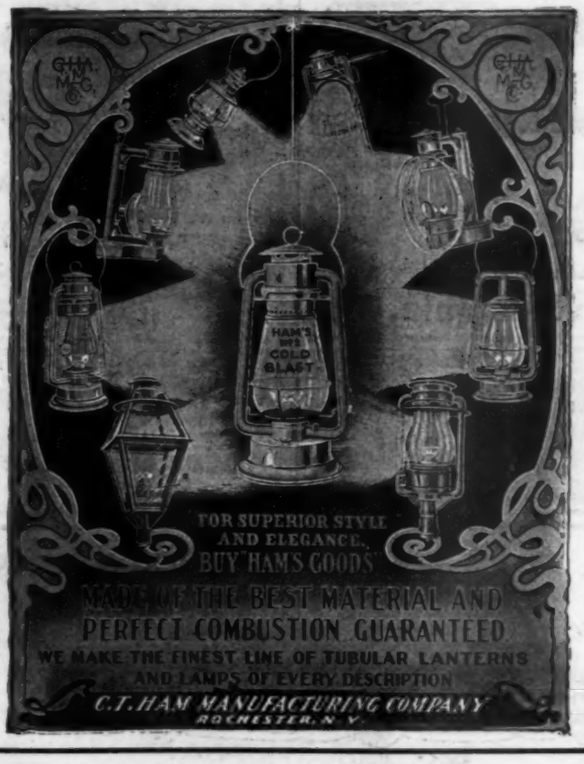
"Paragon" defined means "a model of excellence." That is why we call our washer "Paragon" and because it is superior to all others

The "PARAGON" has a revolving cylinder inside the tub, operating on the same principle as all laundry machines. The tub and all parts coming in contact with water are galvanized steel, which eliminates the possibilities of the tub ever leaking, a condition which is very exasperating to users of the wooden tub washers so generally used. There are no heavy gearings to get out of order. It can be operated by a seven-year-old child. It will wash twelve shirts or their equivalent in twelve minutes.

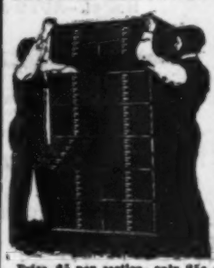
We will ship to any responsible dealer answering this advertisement one of the "Paragon" Washers on 60 Days' Trial, same to be returned to us at our expense if not found practical.

PRICE TO THE DEALER, $5.00 EACH, DELIVERED

J. M. GAGAN & CO. Hardware Manufacturers **270 to 280 Dearborn St. Chicago**



THE LEONARD
Sectional ELECTROTYPE Cabinet



Offers the best system for the care of Electrotypes. Made of Oak in sections each 36 in. wide x 24 in. deep x 10 in. high. Each section contains ten extra strong drawers, size 16x 23½ x 1¼ deep. Each section will hold 700 electros 2x2. Buy one section or as many as you need, add to it at any time. Not sold through the trade; order direct of the factory.

Price, $5 per section, only 25c a drawer, and 25c for its frame; base $1.00, top $1.00.
Send for colored circular and full description of cabinet.

LEONARD MANUFACTURING CO.,
34 Market Street, - Grand Rapids, Mich.

HAY STACK COVERS

Save the Hay and Grain.

Write for prices on all kinds of Canvas goods.

AMERICAN TENT & AWNING CO.
Mention this paper. MINNEAPOLIS, MINN.

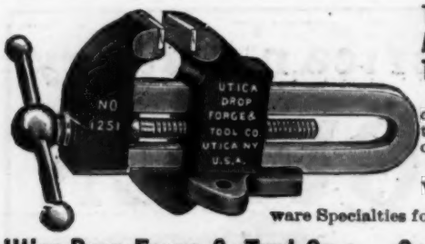
GEO. W. BROWN, Jr., Hillsboro, Ill., writes:

"You may kindly discontinue our WANTED TINNER ad. that you have so kindly carried for us the past three issues. I have received replies from Vermont to Dakota and think that we have secured a good man."

Improved Quick and Easy Rising Steam, Electric and Hand Power

ELEVATORS

Send for Circulars.
KIMBALL BROS. CO.,
1031 Ninth St., Council Bluffs, Ia.
KIMBALL ELEVATOR CO., 139 Vincent St., Cleveland, O.



THE MOST PRACTICAL, UP-TO-DATE AND CONVENIENT VISE ON THE MARKET.

The yoke is one piece of high carbon cold rolled steel, bent in such a form as to make it the most rigid vise ever constructed.

Will do the work of one a third larger, without straining or injury.

Send for our Green Book of Hardware Specialties for particulars and price.

Utica Drop Forge & Tool Co., Mfrs. of Nippers and Pliers,

Smith & Hemenway Co. Corp., Mfrs. of Cutlery and Hardware Specialties,

29 Broadway, New York City, New York

TACKS

TOWER M'F'G. CO.
ELM & FRONT STS.
CINCINNATI, O.
MANUFACTURERS

LOOK FOR "NEVER-BREAK" SHOVELS (PATENTED)

You will buy only these, once you know them. They are remarkable for Strength, Leverage and Durability. ("Never-Break" Steel Spiders, Griddles, Kettles, etc., made at the same stand.)

THE AVERY STAMPING CO. | CLEVELAND, OHIO.
Makers of "Never-Break" Goods

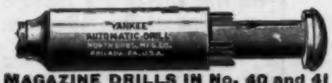
Snow Shovels and Furnace Scoops

Place your orders early so you will get your Goods in time.
We make 6 styles, both Long and D handles.
We use only the best grade of Shovel Steel,

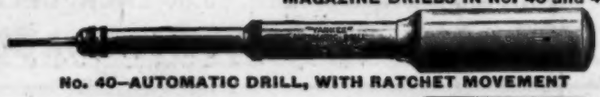
Write for our 4-page Circular.

F. E. KOHLER & CO. The HARDWARE SPECIATIES Manufacturers, CANTON, OHIO, U. S. A.

"Yankee" Drills

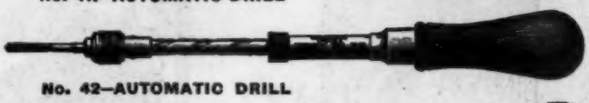


MAGAZINE DRILLS IN No. 40 and 41



No. 40—AUTOMATIC DRILL, WITH RATCHET MOVEMENT

No. 41.—AUTOMATIC DRILL



No. 42—AUTOMATIC DRILL

No. 50—RECIPROCATING DRILL FOR WOOD OR METALS

Sold by Leading Jobbers.
Send for "Yankee" Tool Book.

North Bros. Mfg. Co., Philadelphia, Pa.

PELOUZE SCALES
ARE THE STANDARD FOR
ACCURACY, DURABILITY & SUPERIOR WORKMANSHIP
BUY OF YOUR JOBBER. INSIST UPON GETTING THE PELOUZE MAKE
No E 50 AS SHOWN 24 Lbs.
No T 90 WITH TIN SCOOP.
No 92 ½ BRASS DIAL, TILE TOP.
PELOUZE SCALE & MFG. CO.
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BEST IN THE WORLD.

It is made of STEEL, TIN or BRASS Scoop Top.

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OVER TEN MILES OF CHAIN PER DAY. WE LEAD.

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INDIA OIL STONES ARE SHARP AND QUICK

INDIA OIL STONES are superior to other Oil Stones for the following reasons:

Are of uniform grain throughout, cut faster, wear longer and sell better. Handled by leading Jobbers.

Regular India Bench Stone.

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NORTON EMERY WHEEL CO.

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Sharpening Stones for Everything that Has an Edge.

Improved Farmer's Friend Cream Separator.

The simplest device of its kind on the market. Made of heavy tin plate.

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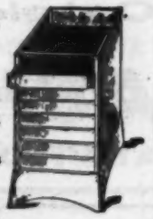
A highly satisfactory Evaporator for family use. Can be used on an ordinary Cook Stove. Hardware dealers wanted as agents. Write for Prices



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IS IT QUALITY? IS IT PRICE?

We have BOTH in

The Frost King Separator

Water and milk not mixed. They are bound to please your trade that demand this style of Separator as they sell for from 10 to 25% less than asked by others. Write to-day for Catalogue and prices.

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A Labor-Saving Device for Taking Care of Milk and Cream.

Made of heavy tin; durable—works thoroughly—does away with crocks, pans and hard work—keeps milk and cream clean; not expensive—not complicated. Made in six sizes; every one guaranteed.

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"Eagle" Brand Copper Rivets and Burrs

STANDARD FOR QUALITY. (Lake Superior Copper)

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The BOSS CREAM SEPARATOR

The most complete device for handling milk winter and summer. No mixing of milk and water. Thousands were sold last year, and many more will be sold this year.

Write at once for descriptive circulars and prices.

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Improved Daily Express Service (14 hours) between

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The 1900 WASHER

IS THE EASIEST WASHER TO SELL

As we help the Dealer by advertising in Magazines, and turning inquiries over to him.

This is a full ball-bearing and Automatic Machine. It is the simplest, easiest, and most efficient machine for washing clothes ever invented.

The washing is done while the operator sits by its side, revolving the tub by the handle.

Write For Catalogue.

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Once Sold They Never Come Back

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Live Hardware Dealers

Are with us and say the

White Lily Washing Machine

is the best seller on the market.

High Speed, Light Running, Handsome Finish and Guaranteed

Only one dealer in each town can get them. We will do some advertising for you. Write for particulars.

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For 30 years we have been manufacturing lamps, and make a Miners' Lamp that always gives satisfaction. The Globe Lamp has a globe. Our name is stamped on it. We also make a Star Miners' and Drivers' Lamp.

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Prevent Zymotic Diseases by pushing sale of these goods in your locality.

EVERY FILTER IS GUARANTEED TO BE ABSOLUTELY GERM PROOF.

EVERY FILTER IS A PERFECT FILTER WHEN IT LEAVES OUR FACTORY.

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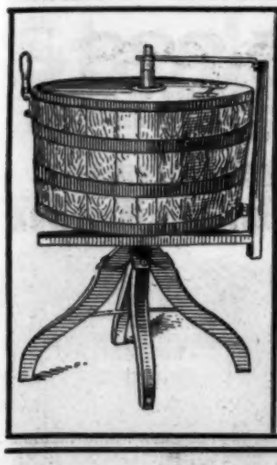

The 1903 WASHER

Best made,
Correct principle,
Perfect washer,
No wear on clothes.

FOR TERMS AND TERRITORY WRITE

The 1903 Washer Co.

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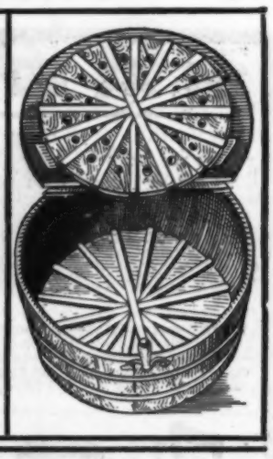

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That the **O. K. WASHING MACHINE** is the best made, the lightest running and the most attractive washer on the market? *Are you selling it? If not, why?* Every first-class dealer should sell it, because it is made of the best materials, by the best mechanics that can be obtained, and every one sold will sell another.

Write us for Circulars and Prices.

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11 Different Styles. 31 Sizes.

Illustration represents our Banner (double acting) Machine, operated by lever. For full description write for catalogue showing our complete line. Address

BOSS WASHING MACHINE CO.
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Have you ever considered the advantage of the

IMPROVED SCHROEDER ROTARY ROLLER GEARING WASHER?

No steam escapes, prevents disagreeable odors from permeating the house, keeps water hot longer, is light running, simple and durable. The most successful rotary washer on the market.

WORKS SO EASILY A CHILD CAN OPERATE IT.

We can tell you more if you want to know, it is to your interest as well as ours. Why not write us?

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WRITES:

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Exact Size of Cut.

Ebony, Ivory, Coral or Amber Handle, $2.00 per doz. Pearl or Stone Handle, $3.00 per doz.

Over 2000 LIVE Hardware men sell 'em. The DEAD ones don't.

We will send two dozen prepaid in a handsome plush lined cherry tray to any dealer, **on consignment**, to be returned at our expense if found unsalable. We could not do this if they were not the best selling novelty in the hardware trade. It costs you nothing but a 2c stamp to try them. Drop us a line and we do the rest.

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Manufacturer of King Carpet Stretcher, Tack Hammer, Tack Puller, Mincing Knife, Carpet Beater, Clothes Line Holder, Broom Holder, Tea Pot Knobs, Etc.

Sitterly Novelty Works, Auburn, N. Y.

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A parlor and dining car now leaves Chicago at 12:00 o'clock noon, arrives at the Springs at 8:45 P. M. Leaves Springs 9:00 A. M., arrives at Chicago 5:55 P. M. Reservations at Monon Route City Ticket Office, 232 Clark Street.

Telephone Harrison 1245.

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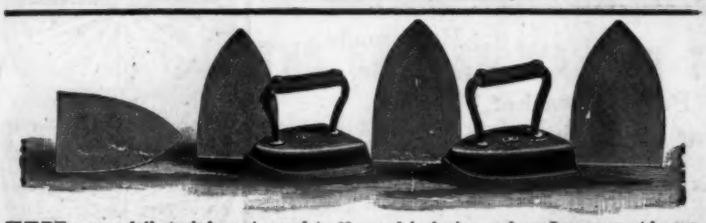
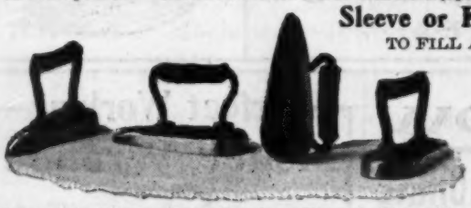


WE carry a full stock from 4-pound to 10-pound inclusive, and our Irons cannot be surpassed in style of finish or shape. We pack in barrels, cases, or half cases, solid or assorted. Barrels contain about 1,100 pounds, full cases about 200 pounds and half-cases 100 pounds. Our Sad Irons are coated with black japan or finished plain, as desired.

Sleeve or Flouncing Sad Iron.

TO FILL A LONG-FELT WANT.



The BLUNT NOSE being so shaped as to insure perfection of work and perfect freedom from destruction of garments from snags, etc., as so often is the case with sharp-pointed iron. These irons should be in every household. They are an absolute necessity. Irons are made in two sizes, 3 and 4-lbs. each, the bodies being coated with Heat-Proof Aluminum Enamel. Face, sides and heel highly polished.

BLACKLOCK FOUNDRY
SOUTH PITTSBURG, TENN.

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New Rural Free Delivery Routes will be opened this year. If some of these are in your territory there is anywhere from $120 to $1,200 business in each route for you, Mr. Hardware Dealer, if you handle the

Roesch Automatic Rural Delivery Mail Box

Approved by the Postmaster General.
STORM AND DUST PROOF.
The Cheapest Box, Quality Considered.

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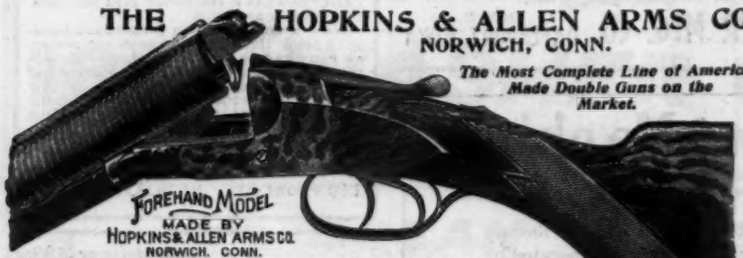
387 New York St., AURORA, ILL.

THE HOPKINS & ALLEN ARMS CO.
NORWICH, CONN.

The Most Complete Line of American Made Double Guns on the Market.



Including Hammer Guns with Decarbonized steel barrels. Stubbs Twist steel barrels or Damascus steel barrels. Hammerless Guns in Stubbs Twist steel barrels, also Damascus steel barrels. Write for Catalogue and prices.

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RURAL MAIL BOXES

Are being used all over the U. S. Perfect in construction—neat in design—best material — good workmanship.

For other information write to manufacturer,

F. G. FOLSOM,
SOUTH BEND, IND.

PATENTED MAY 16, '02.

"HERCULES"

Punch is very strong

Frame being made of semi-steel, punch and die of best tool-steel, and all parts interchangeable. Will punch one-quarter inch hole. Can be had in six sizes—specify sizes wanted. 50 pounds pressure on the handles increased to 1,000 pounds punching force. 100 pounds pressure increased to 2,000 pounds punching force.

Set of three dies furnished with each punch.

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RONEY HAY CARRIER AND FORK RETURNER.

This Returner will return carrier and fork before the team can turn around thereby saving all hard work of pulling carrier back by a trip rope. AGENTS WANTED.

RONEY RETURNER CO., Box G, Independence, Ia.

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Effective System

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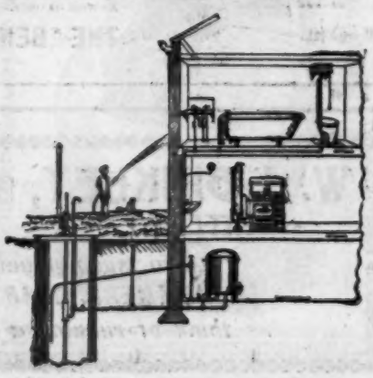
The Original Horigan System, that all others have imitated

SYMPLICITY THE GREATEST FEATURE.

Convincing facts in our booklet. Correspondence solicited.



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(Cut Exact Size.)

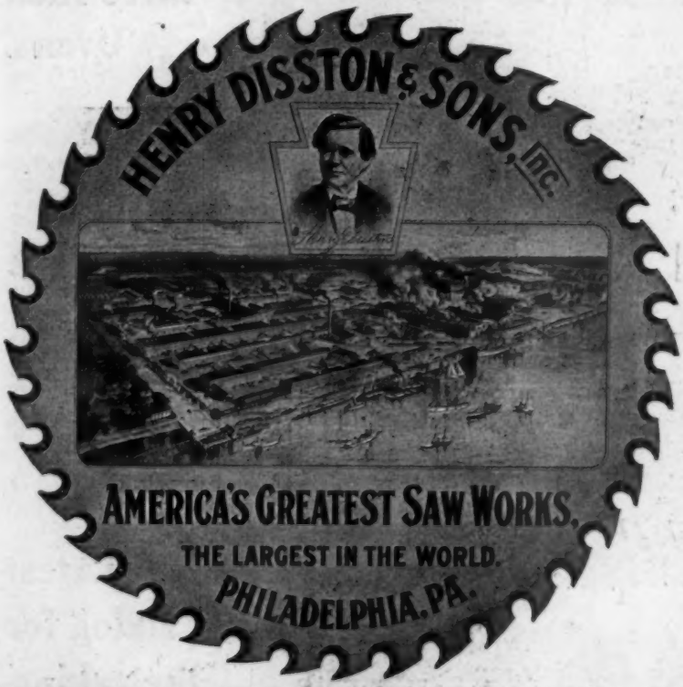
Extra quality Crucible Steel of 7-32 in. diameter. A handy little tool for the vest pocket, which will work a good sized screw. Made only in one size. **$3.50** Per Doz.

THE HURWOOD MFG. CO. (INC.), Plantsville, Conn., U. S. A.

Will lay out patterns for any size and angle of elbows in three minutes' time. Can also be used as Straight-edge Rule, Circumference Rule and Trammell. Should be in every Tinshop. Will save its cost in a few weeks. Thousands are in use and every one giving excellent satisfaction. Price, complete in a nice wooden box with Chart, $4.00 net cash. (Mention The American Artisan.)

Lufkin Rule Co.,

Saginaw, Mich.



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UNPARALLELED NIGHT SERVICE. NEW STEAMERS

"CITY OF BUFFALO"

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Both together being, without doubt, in all respects the finest and fastest that are run in the interest of the traveling public in the United States.

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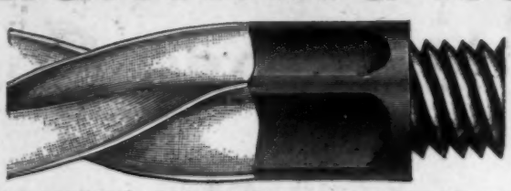

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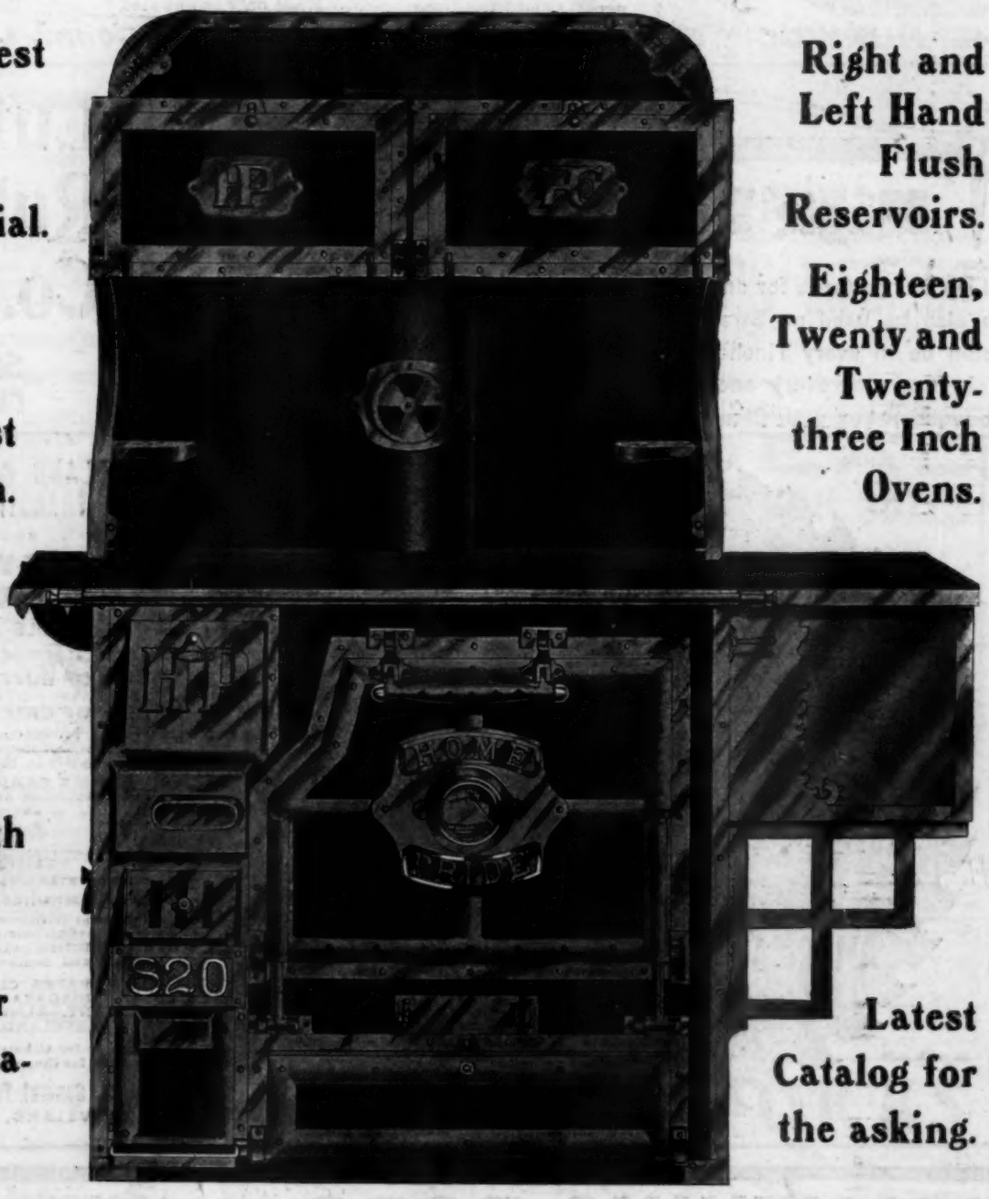
MALLEABLE STEEL RANGE

Heaviest and Best Material.

Right and Left Hand Flush Reservoirs.

Eighteen, Twenty and Twenty-three Inch Ovens.

Hand-somest Finish.



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Sold Exclusively to the Trade.

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Sausage Stuffer *and* Lard Press

TINNED OR JAPANNED

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The Iron Cylinder is Bored True

The Tin Cylinder has Lips to enable *the* Operator to remove *the* Hot Cracklings with little or no inconvenience

No Hot Cylinder to handle when Pressing Lard

The Patent Latch prevents breakage *of* Plates

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The strongest, most durable, and cheapest CUT-OFF on the market.

The only single Cut-off made to fit CORRUGATED and Plain Pipe and which can be used without extra pipe or elbows. For sale by all leading jobbers. Patent applied for.

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Are you selling them?

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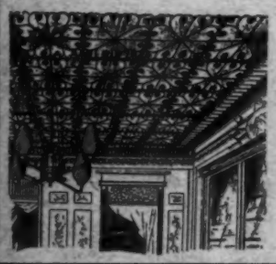

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Peerless Rain Water Cut-Off.

Made of high-grade Tin and Galvanized Iron, will last for years. The force of water cannot turn the water back, requires no weight or catch on the lever to keep it in place. Lever is short and cannot be broken loose by trying to turn it the wrong way.

Having the shifting tube working loosely inside the case instead of a thin scoop or pan, the flat surface of the tin does not come in contact, consequently it is not liable to rust or freeze fast.

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In Brass, Copper, Galvanized Iron and with Glass Tops for Skylight purposes.

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"Globe" Ventilated Ridges. Send for Pamphlet.

Manufactured by

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When placed in the hands of the intelligent mechanic, the Atkins High Grade Silver Steel Hand Saw sells itself. You simply show it and the Saw does the rest.

ATKINS Silver Steel Hand Saws, with perfection Handles, are warranted the FINEST Saws on Earth in Material, Temper, Grinding and Finish.

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